

***USER'S MANUAL***

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***COMPACT SEWING MACHINE "NEO"***

***TEJTI-C***



# Foreword

This user's manual is a guidebook for using TAJIMA embroidery machine TEJTII-C "NEO" correctly. It describes about operation of the machine and items to notice for use. Please read this manual thoroughly, understand the contents, and then use the machine.

We believe that the following booklets (separate volume) are useful for you to understand the machine. Please also read those booklets.

## BASICS TAJIMA EMBROIDERY MACHINES MACHINE SETUP INSTRUCTIONS

This manual is composed of the following contents.

- [Important safety instructions]
- [Important warning items for safe operation]
- [Construction of the machine]
- [Preparation and basic operation]
- [Setting • operation]
- [Outline of function]
- [Troubleshooting and maintenance]
- [Related to electrical component]
- [Others]

Regarding optional device, please refer to the user's manual of the device you have selected.

This manual may contain discrepancies in detailed information when compared with the actual product you have purchased due to continued research and improvements. If any question about the product or contents of this manual arises, please consult your TAJIMA distributor.

Please keep this manual near the machine for immediate reference. When this manual is not used, keep it carefully.

Tokai Industrial Sewing Machine Co., Ltd.


## Important safety instructions

To use this machine safely, it is necessary to handle the machine correctly.

Please read the IMPORTANT SAFETY INSTRUCTIONS in this manual carefully and do not attempt operation or maintenance of the machine before you thoroughly understand the items written under IMPORTANT SAFETY INSTRUCTIONS.

Items that require your special attention on operation and maintenance of the machine are specified below with the warning symbol and signal word. These items must be strictly observed to ensure safety during operation and maintenance. Signal word definition is given below.


 <b>DANGER</b>
Indicates that there is a lot of danger of death or serious injuries [*1] if the instruction is not observed.


 <b>WARNING</b>
Indicates that there is a likelihood of death or serious injuries [*1] if the instruction is not observed.


 <b>CAUTION</b>
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury [*2] or property damage.


\*1: A condition caused by electric shock, injury, fracture of a bone, etc., that leads to aftereffects, or an injury that necessitates hospitalization or visits to a hospital over a long period.

\*2: An injury that does not necessitate hospitalization or visit to a hospital over a long period.


: Prohibited items

: Items that may cause electric shock if not observed

: Items that must be followed carefully to ensure safe operation

: Instructions about connection of grounding wire

: Items that must be observed to perform works comfortably

: Items that explain the contents of sentences in detail and items that complement the contents.

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# Chapter 1    Important warning items for safe operation

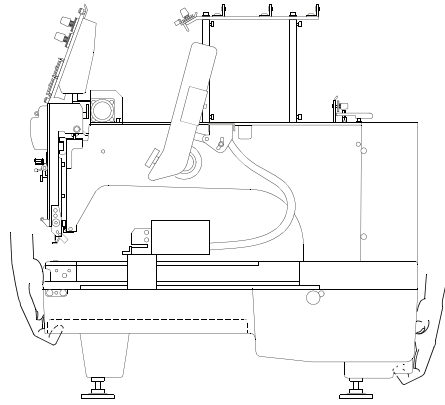
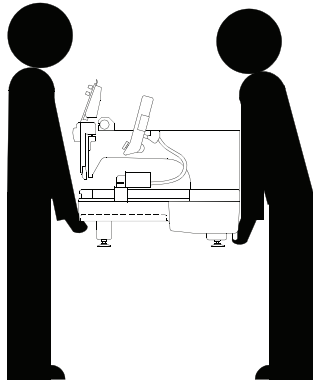
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## 1. CARRYING





**! WARNING**

-  Carrying of this machine should be performed by two or more persons.  
Dropping could cause injury or breakdown.
-  When carrying the machine, hold the correct spots.  
Dropping could cause injury or breakdown.



## 2. INSTALLATION

**! CAUTION**

-  Do not use the machine in ambient temperature of 45°C or more, or 5°C or less at running, at a place with much humidity, and outside.  
It could cause breakdown of the machine.
-  Do not use the machine at a place where strong electric field or magnetic field is generated by such as high output high-frequency generator, high-frequency welder, etc  
It could cause injury or breakdown due to malfunction.
-  Place the machine on a firm stand horizontally.  
Dropping could cause injury or breakdown.
-  Install the machine so that the embroidery frame or the drive section of the machine does not hit things or wall near the machine.  
It could cause injury or damage of the machine.



### 3. WIRING

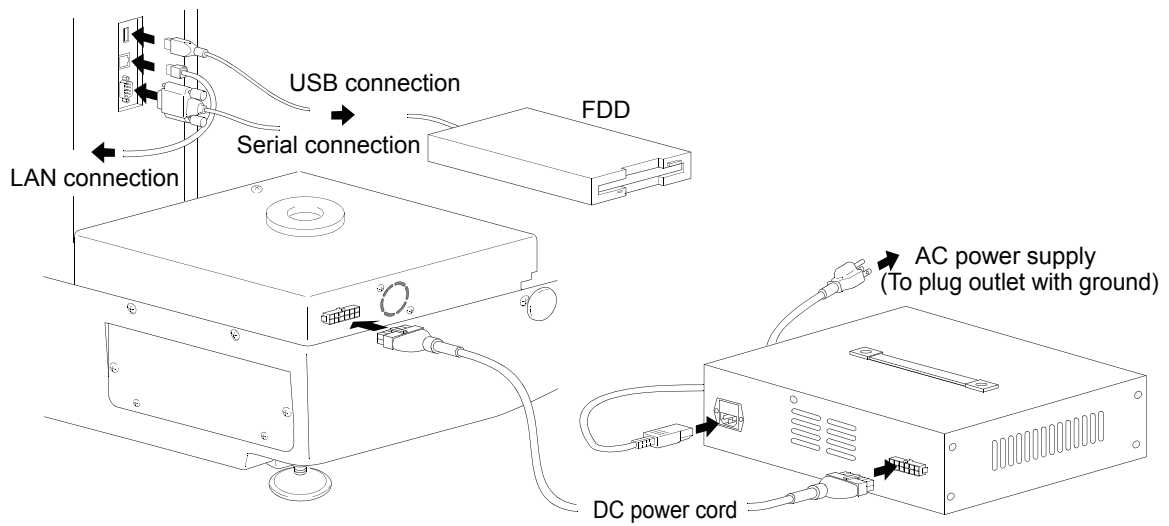
Insulation resistance: 10M ohms or more (500v megger)

**CAUTION**








Connect grounding wire of power cord to the ground (class 3 or more, grounding resistance 100 ohms or less).

If using the machine without grounding, there could be a danger of electric shock due to leak current.













## 4. INSTRUCTIONS FOR USE

### WARNING

-  Do not have your hands or face access to moving unit during running of the machine. Especially, the vicinity of needle is dangerous.  
It could cause injury.
-  Do not damage, modify or heat the power or other wiring cords. Do not exert undue force to them, either.  
Cord will be damaged causing fire or electric shock.
-  Insert power cord securely.  
If electric poles of power plug touch metal, etc., it could cause fire or electric shock.
-  Keep away electric section from water and chemicals.  
Circuit will have short-circuit causing fire or electric shock.  
If entered, turn off the power switch and contact the distributor after turning off the primary power supply.
-  When pulling out power cord, hold the plug to pull out the cord.  
Pulling out cord will cause cord and plug to be damaged causing fire or electric shock.

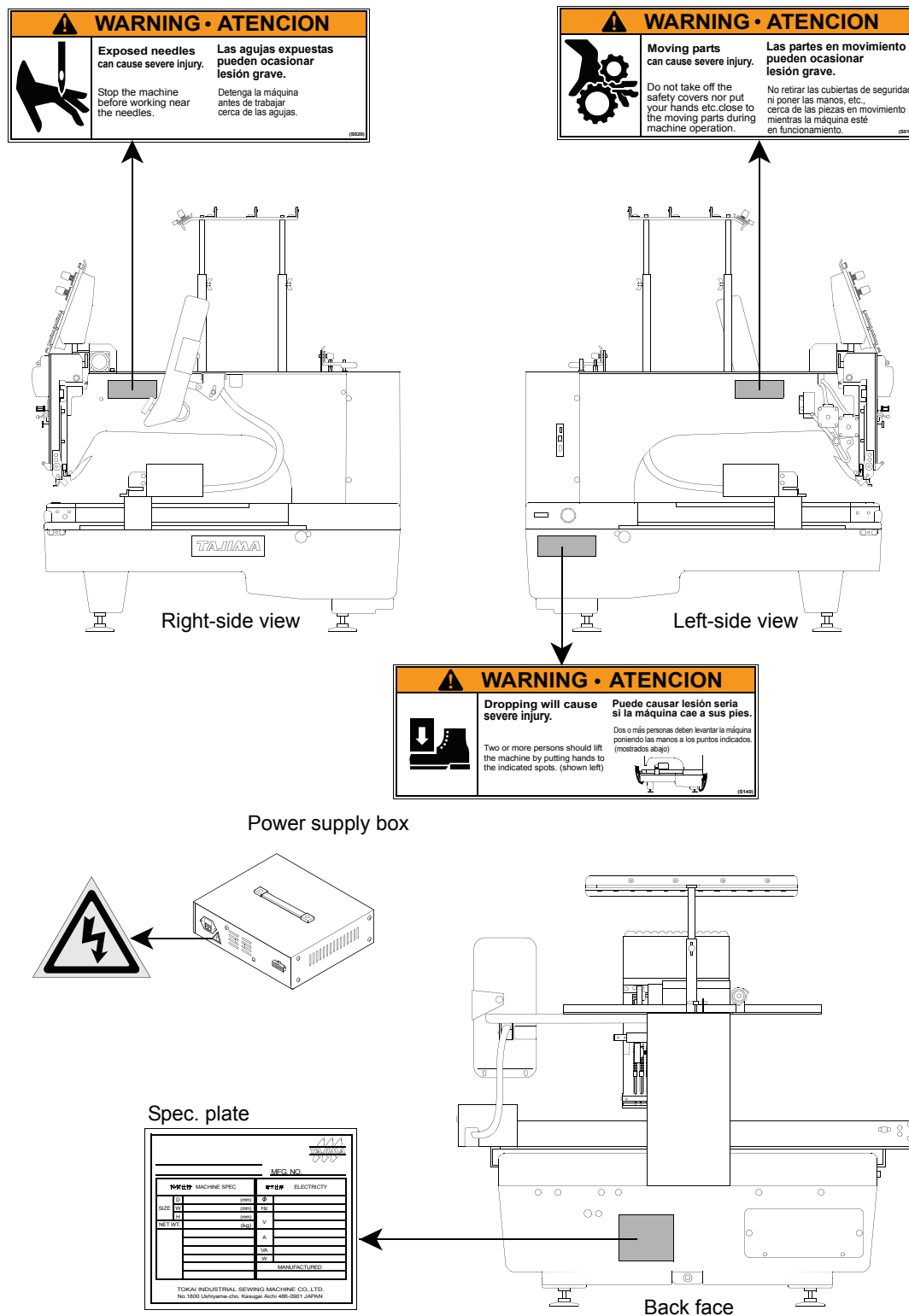
### CAUTION

-  For using the machine for a long time, use the machine with about 70% of the maximum speed as "operation for total fitting" for about one month after purchase.  
By performing operation for total fitting, life of the machine will become longer, which will be useful to avoid unexpected troubles.
-  This machine is a machine for industrial use. Use this machine for embroidering textile goods, semi-finished goods and similar materials. Do not use this machine for other purposes in principle.  
It could cause breakdown of the machine.
-  Only the persons who are sufficiently trained for the operation must operate the machine.  
Wrong operation could cause injury.
-  This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
-  Children should be supervised to ensure that they do not play with the appliance.
-  Read this user's manual thoroughly, understand the contents of operation securely, and then operate the machine.  
Wrong operation could cause injury.
-  Wear proper clothes and tidy up yourself so that you can smoothly perform the operation.  
Operating the machine with improper clothing and appearance could cause injury.
-  Do not stand on the machine.  
It could cause injury.
-  Do not use the machine with take-up lever guard or cover of movable unit detached.  
It could cause injury.
-  Do not transport, store, and operate the machine in the area of which altitude exceeds 1,000m.

## 5. WARNING LABELS

The machine has warning labels that bear instructions for safe operation. Machine operators must follow the instructions shown on the warning labels.

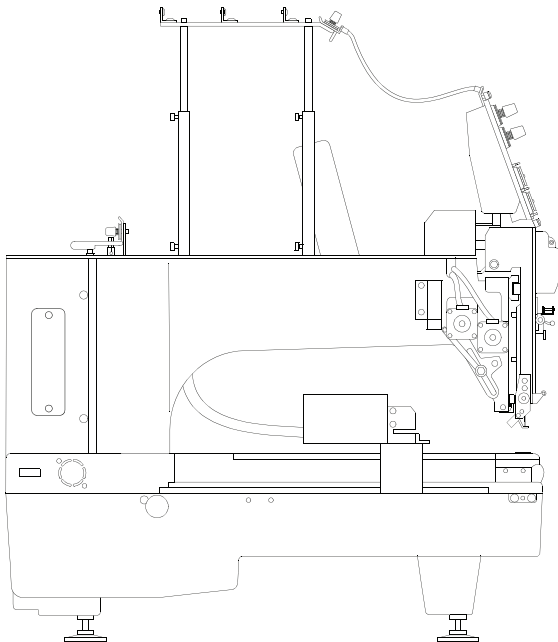
Do not detach the label nor make the printing surface illegible by paint etc. In addition, if a warning label is missed or damaged, please consult your local distributor.



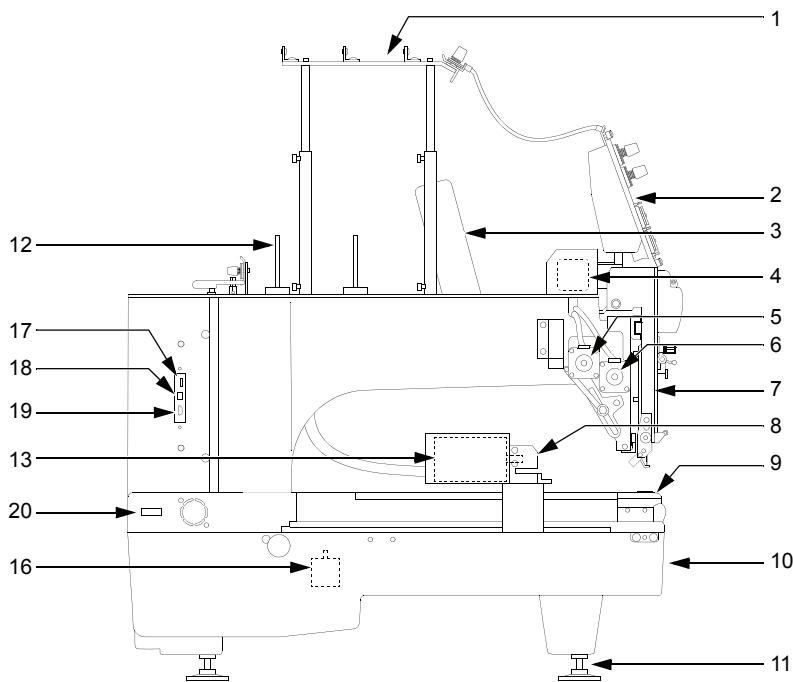


## Chapter 2 Machine construction

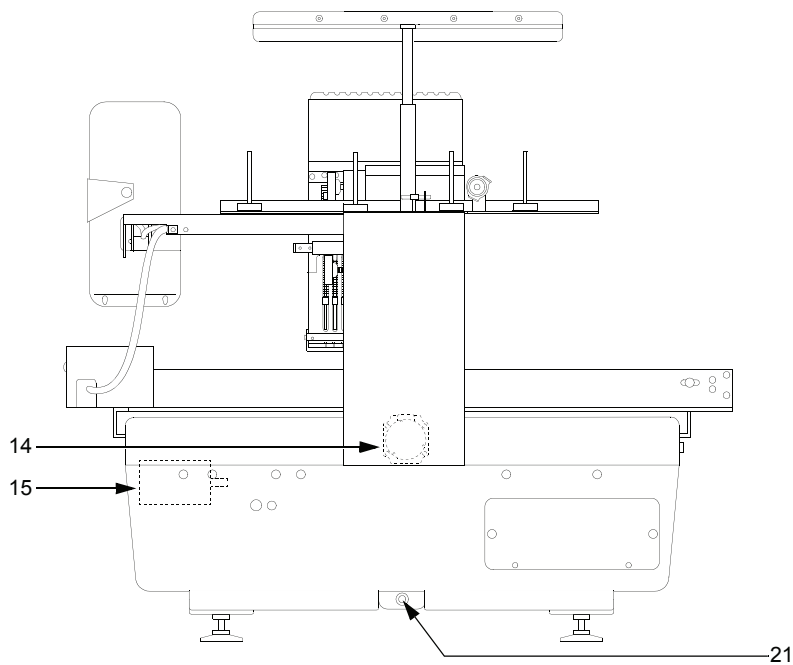
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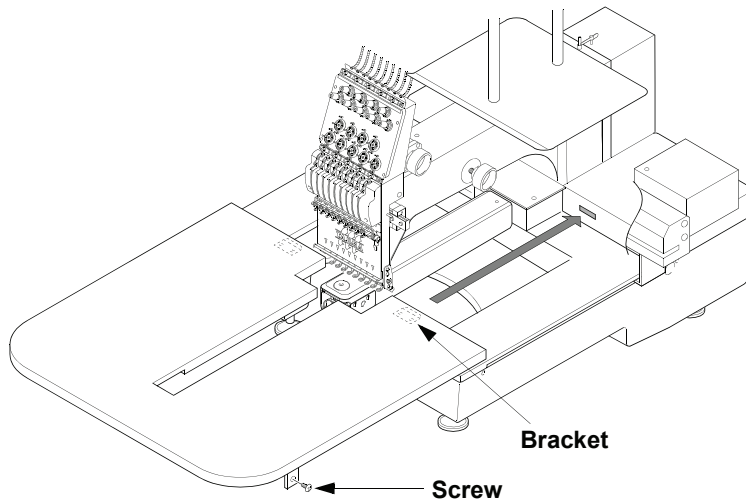
## 1. EMBROIDERY MACHINE MAIN BODY



1. Thread guide system
2. Tension base
3. Operation panel box
4. Color change motor
5. Thread holding motor
6. Jump motor
7. Needle bar case
8. Z-spec. frame
9. Needle plate
10. Stand
11. Leveling adjuster
12. Thread stand stud
13. X-axis motor
14. Main shaft motor
15. Y-axis motor
16. ATH motor
17. USB port
18. LAN port
19. Serial port
20. Power supply connector
21. Oil-drain hole



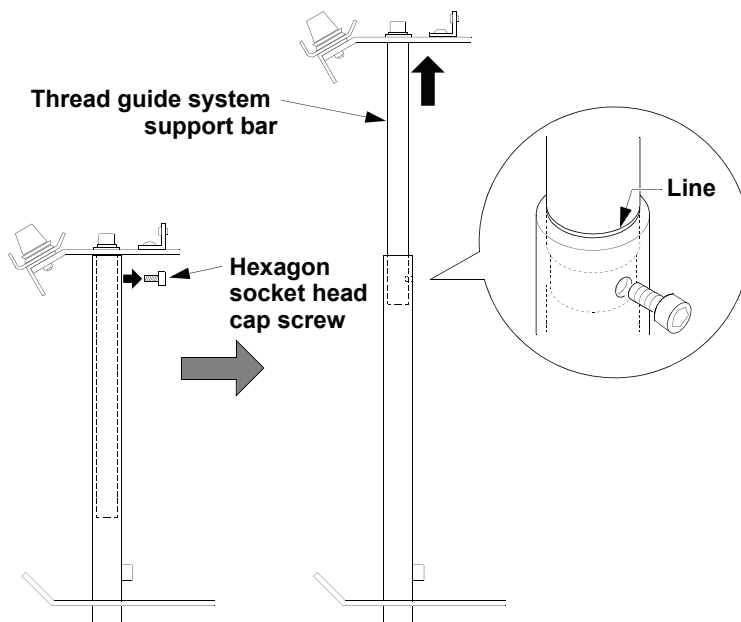
## 2. TABLE



To attach the table, fit the bracket into the attaching hole and tighten the screw.

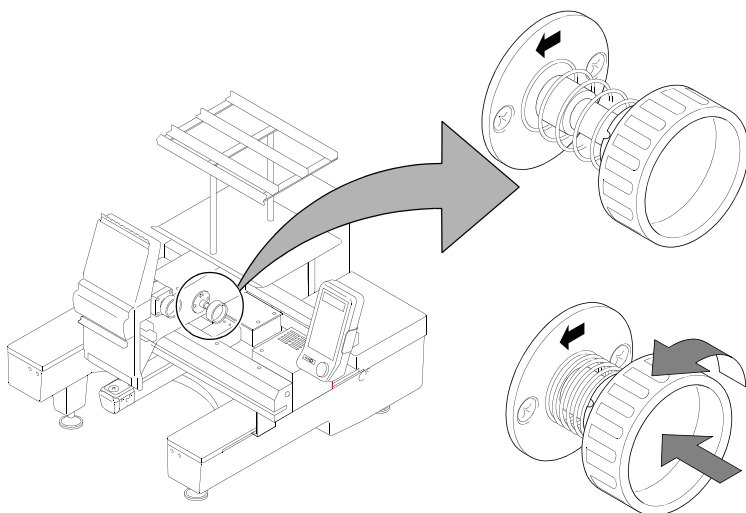
When detaching the table, do not loose the screw.

## 3. THREAD GUIDE SYSTEM SUPPORT BAR



Detach the hexagon socket head cap screw to lift the thread course support bar and fix the screw at the position where you can see the line.

## 4. MAIN SHAFT HANDLE

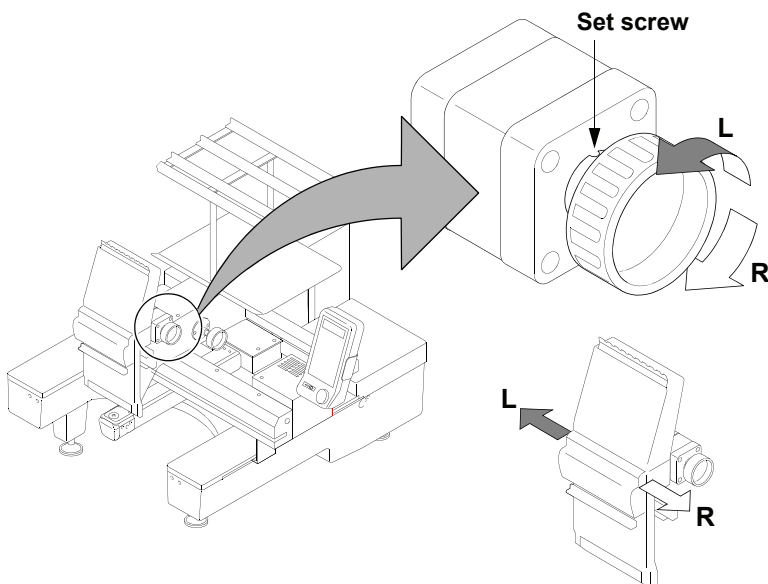


Pushing and turning the main shaft handle to the direction indicated by the arrow will cause the main shaft to rotate.



When the main shaft departs from the fixed position, adjust the main shaft stop position.  
(Refer to 1-4.Adjustment of main shaft stop position p.87)

## 5. COLOR CHANGE HANDLE



Turning the color change handle to the direction indicated by the arrow will cause the needle bar case to slide.



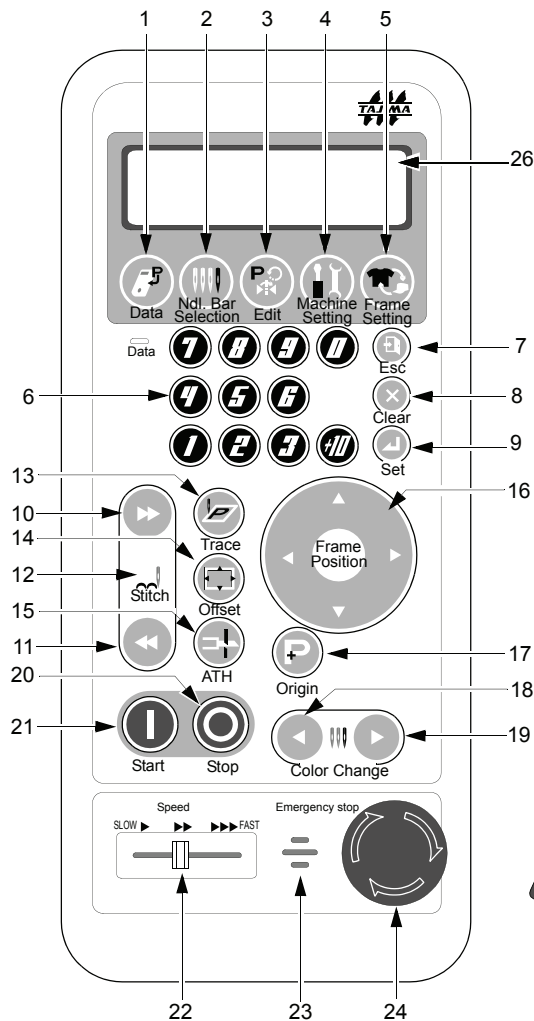
When the set screw is positioned directly above, odd-numbered needle bars will be set at the fixed position. When the set screw is positioned directly below, even-numbered needle bars will be set at the fixed position.



When the needle bar case departs from the fixed position, the machine will not stop. Perform adjustment so that the set screw of the color change handle faces to the top or bottom.



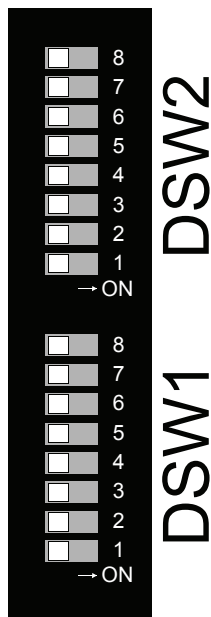
## 6. OPERATION PANEL



1. Data set menu key
2. Color change setting key
3. Design edit key
4. Machine setting key
5. Frame setting key
6. Numerical key
7. Escape key
8. Clear key
9. Set key
10. Frame forward key
11. Frame back key
12. Feed unit setting key of frame back/forward
13. Trace key
14. Offset key
15. Thread trimming (ATH) key
16. Frame travel key  
Selecting key of setting item
17. Origin key
18. manual color change key (Left)
19. Manual color change key (Right)
20. Stop switch
21. Start switch
22. Speed controller
23. Buzzer
24. Emergency stop switch
25. DIP switch
26. LCD display

**⚠** Do not push the operation panel with a sharp-pointed object. It could cause breakdown.

## 7. DIP SWITCH



DSW2

No.	Contents	OFF	ON
8	—	*—	—
7	—	*—	—
6	—	*—	—
5	—	*—	—
4	Satin conversion	* Corrects stitch length of 1.5 mm or more	* Corrects stitch length of 0.6 mm or more
3	Satin adjustment	* Corrects X and Y at the same time	Corrects X and Y individually
2	Origin of installation	*—	—
1	Operation mode 2	* Usual operation mode	Installation mode DSW1-1 ON

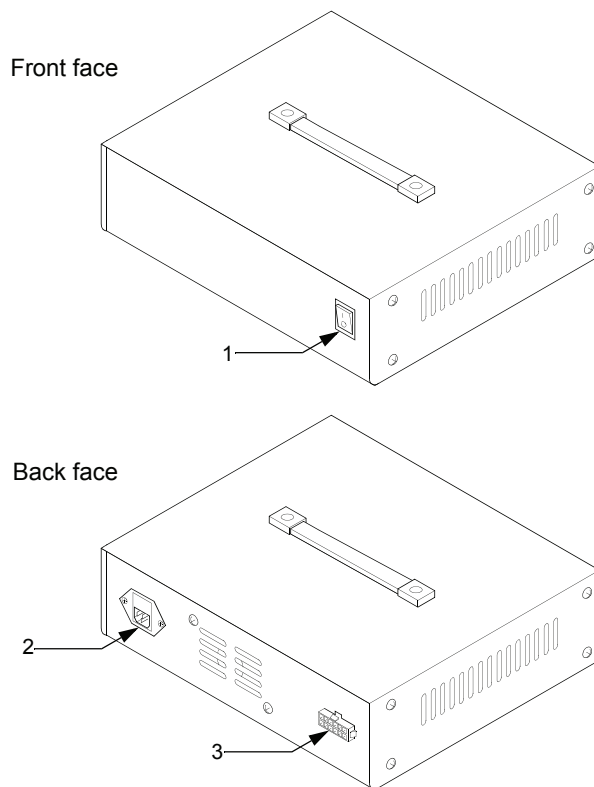
DSW1

No.	Contents	OFF	ON
8	—	*—	-
7	—	*—	-
6	—	*—	-
5	Beam sensor	* Non-correspondent	Correspondent
4	Frame moving direction by frame travel key	* Based on frame	Based on design
3	The number of times of buzzer	* 10 times	Once
2	—	*—	—
1	Operation mode 1	* Usual operation mode	Test mode

After changing DIP switch, turn ON the power switch again.

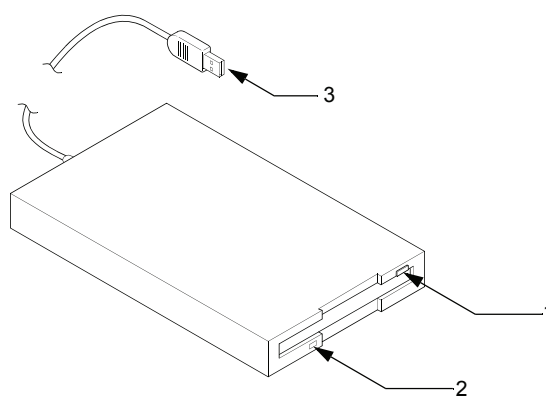
\*: Setting at shipment

## 8. POWER SUPPLY BOX



1. Power switch
2. AC power supply connector
3. DC power supply connector

## 9. FLOPPY DISK DRIVE

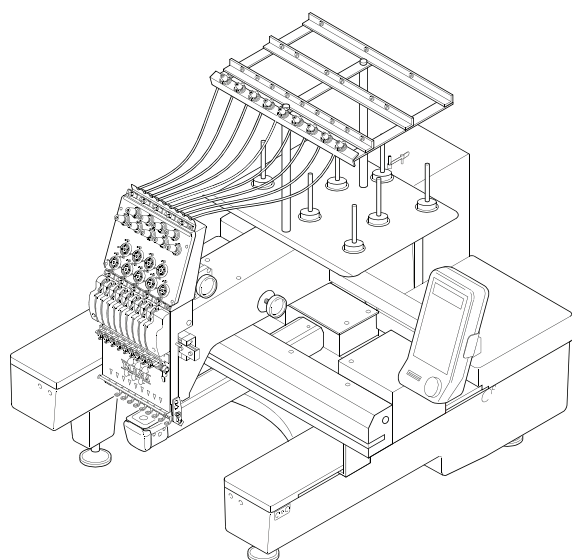


1. Disk eject button
2. Operation indicator lamp
3. USB connector



## Chapter 3 Preparation and basic operation


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## 1. CHECKING BEFORE STARTING OPERATION

Before embroidering, execute inspections of the following items.

### CAUTION

-  To perform checking before starting operation, turn OFF the power switch.  
Checking with the power turned ON will cause injury.

Items to check	Condition	Ways of coping
Covers	Detached	Attach
Thread	Detached	Set
	Broken	
Needle	Bent	Replace
	Broken	
Rail section of rotary hook	Proper quantity of oil is not attached.	Lubricate

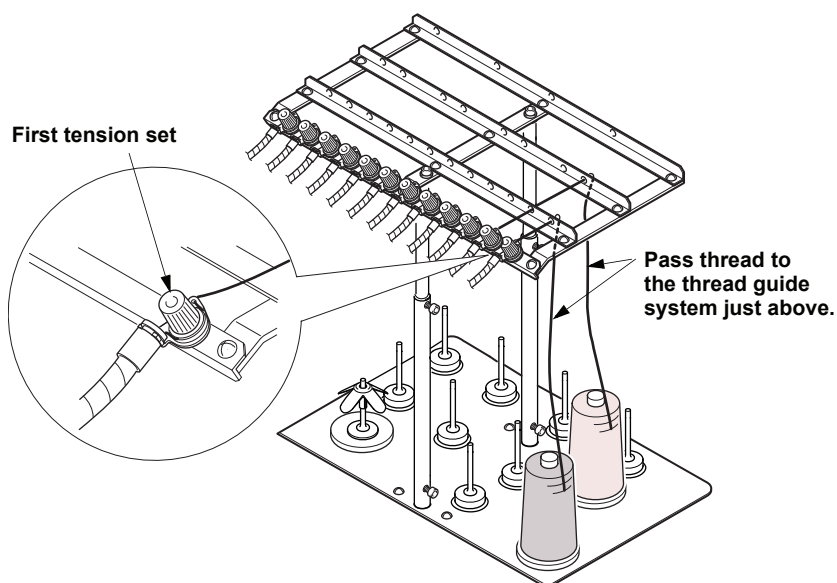
## 2. THREADING

### (1) Thread stand plate

After passing upper thread to the thread guide system just above, pass it to the first tension set.

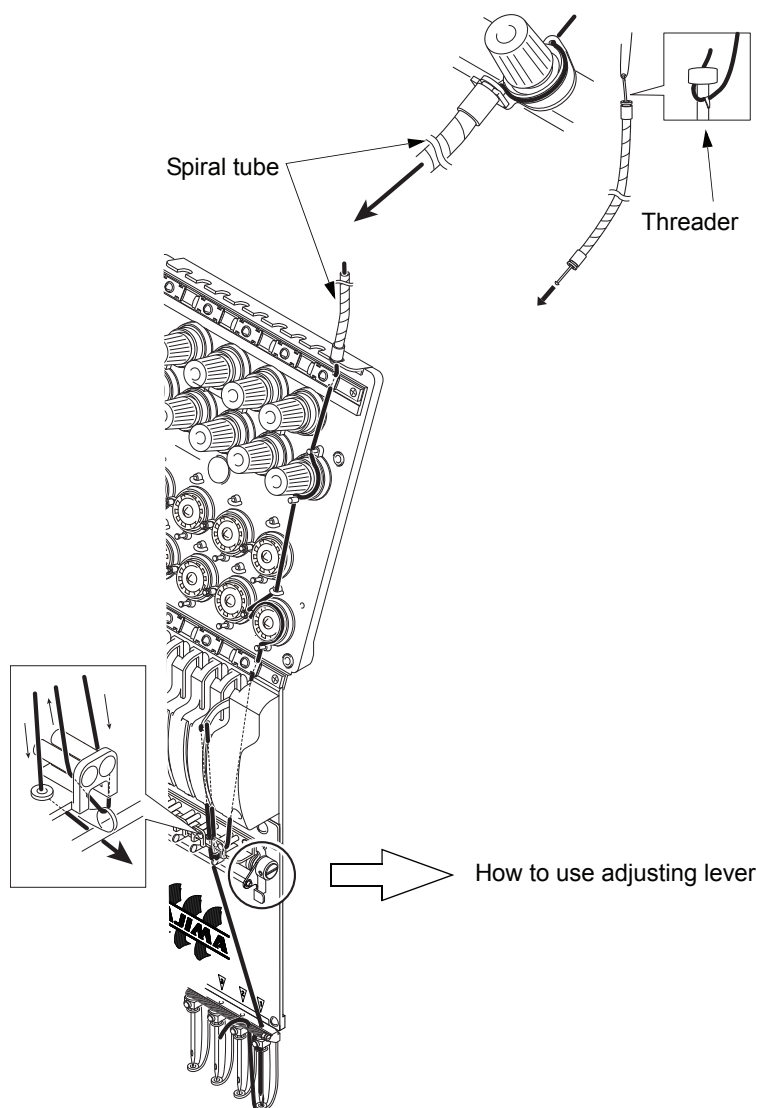


Please read the separate booklet "MACHINE SETUP INSTRUCTIONS".

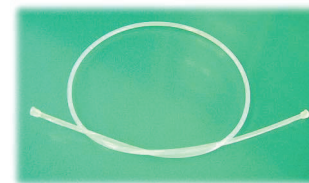


## (2) Tension base

Pass upper thread to the spiral tube by using the threader. After that, perform threading by referring to the illustration below.

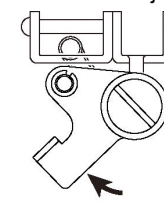


Threader (accessory)

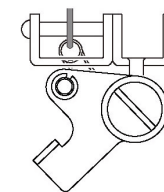


If thread does not pass to each section correctly, it is not possible to perform embroidery normally. In addition, the thread breakage sensor will malfunction to generate code No.291.  
(Refer to 1. When the machine stops during operation p.86)

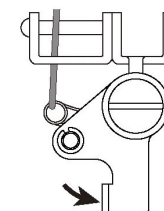
How to use adjusting lever



1. To raise the lever



2. To pass thread



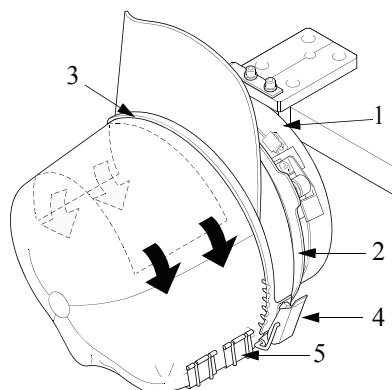
3. To return it to the original position  
(In the state of embroidery possible)

## 3. ATTACHING OF FRAME

### 3-1. Cap frame (Option)

#### (1) Attaching

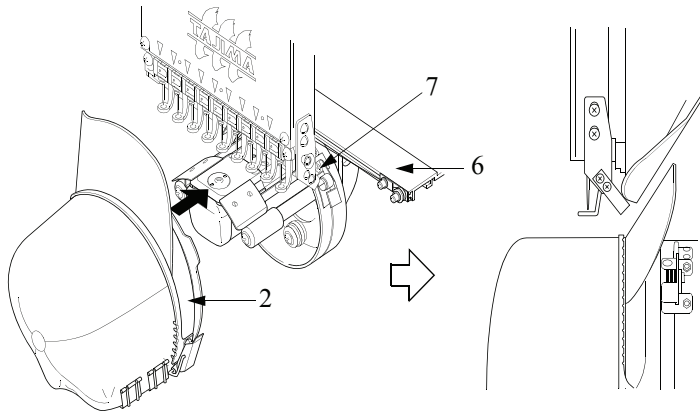
Set the cap frame 2 to the cap frame gauge 1. Press the cap by the inner frame 3 and fix the cap by the pinch lock 4.



Please read the separate booklet "USER'S MANUAL ABOUT FRAMES".

### (2) Attaching of cap frame

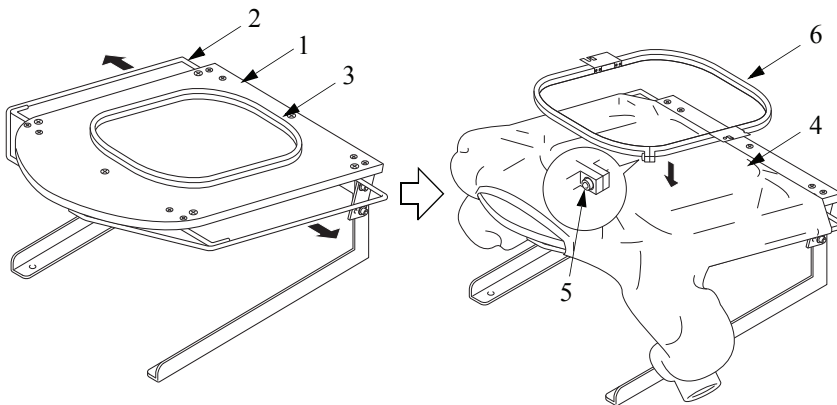
Set the cap frame 2 to the drive base frame 6. Push the cap frame 2 until it is locked by the lock pin 7.



## 3-2. Tubular goods frame

### (1) Attaching of fabric

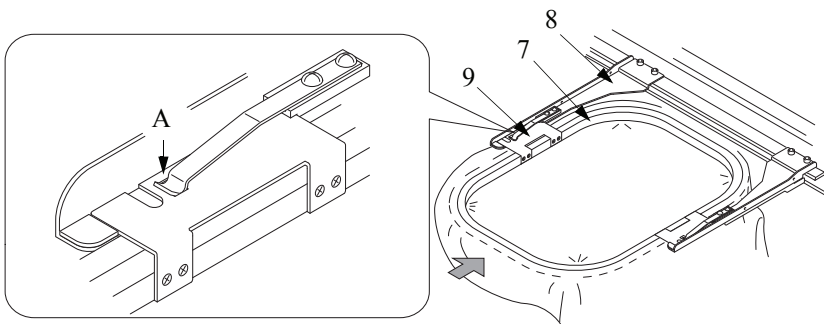
Adjust the position of the fabric stretching arm 2 so that the tubular goods gauge frame 1 fits to fabric size. Place the outer frame 3 and lay the product over it. Adjust fitting degree by using screw 5 and fit the inner frame 6 to the outer frame 3.



Please read the separate booklet "USER'S MANUAL ABOUT FRAMES".

### (2) Attaching of tubular goods

Set the tubular goods frame 7 to the tubular goods frame sash 8 and push the tubular goods frame 7 to the position (A) where the tubular goods frame arm 9 is locked.

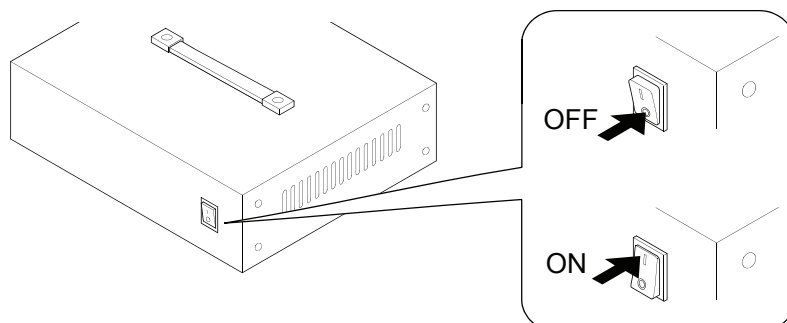




## 4. START AND STOP OF THE MACHINE

### 4-1. Power switch

The power switch is located on the power supply box.

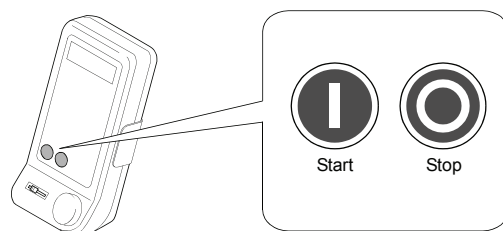


To turn ON the power again, turn "OFF" the power switch and turn it "ON" after 2 or 3 seconds.

### 4-2. "Start" switch and "Stop" switch

"Start" switch makes the machine start and "Stop" switch makes the machine stop.

When you start the machine with "Start" switch keeping pressed, the machine will continue inching. When you release it, the machine will work with normal speed.

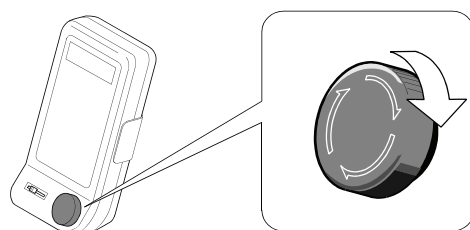


### 4-3. Emergency stop switch

Pressing the emergency stop switch will make the main shaft stop at once.

#### • How to reset emergency stop

- (1) Release the emergency stop switch by turning it to the direction indicated by the arrow.



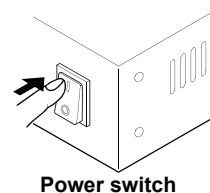
- (2) Turn "OFF" the power switch and turn it "ON" after several seconds.
- (3) Start screen will appear. Check the fixed position. If it deviates from the regular position, perform adjustment by using the main shaft handle.  
(Refer to p.87)
- (4) When needle bar is down, perform manual color change.
- (5) Press the "Set" key to execute origin search.  
(Refer to p.20)
- (6) Press "Start" switch to start embroidery.



When you turn ON the power again after resetting emergency stop, there could be a possibility of displacement of design. Be sure to perform origin search.

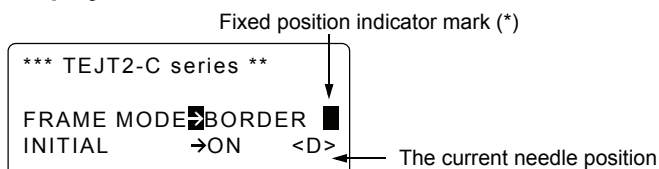
## 5. BASIC OPERATION LEADING UP TO START OF EMBROIDERY

- (1) Turn "ON" the power switch. Please wait a while until screen appears.



Power switch

- (2) Display of start screen



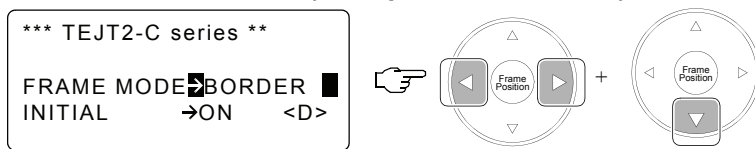
When the fixed position indicator mark (\*) is not displayed: adjust main shaft stop position (Refer to p.87)



An example of indication of needle position

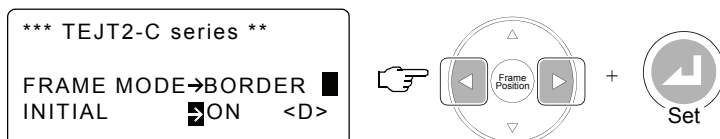
9th needle: 9, 10th needle: A, 11th needle: B, 12th needle: C, 13th needle: D, 14th needle: E, 15th needle: F

- (3) Select the frame to use (Example: select "FLAT").



It is possible to select among FLAT, CAP, CYLNDR, BORDER and X-WIDE.

- (4) Select and execute INITIAL "ON".



This is execution of frame origin search. Be sure to execute. (Refer to p.67)

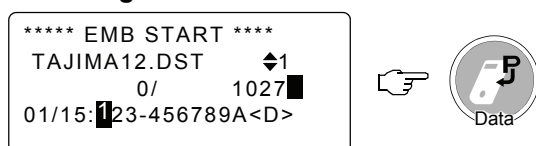
- (5) After detaching the connector cover by removing two pieces of screw, insert a USB memory or FDD to the USB port.

(Refer to p.28)

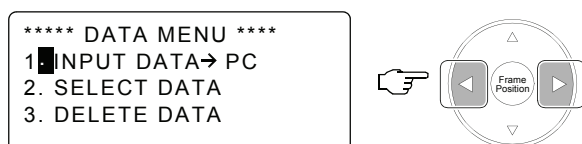
When you use the design data that is already input, proceed to the screen of (8) and select "2. SELECT DATA".

(Refer to p.34)

- (6) Switching to "DATA SET MENU"



- (7) Select "USB".



The black square blinking on the screen is the item you are selecting.

1 INPUT DATA -> USB

**(8) Reading of data from the USB port by pressing “Set”**

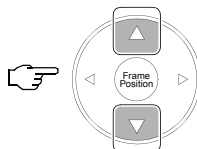
```
*** DATA SET MENU **
1. INPUT DATA → USB
2. SELECT DATA
3. DELETE DATA
```



When the machine is reading design data, it will be displayed as shown below.

**FILE SEARCHING****(9) Selection of design data**

```
**** SELECT DATA ****
01/23 → BIRD.TBF
STITCH → 10713 ST
MEMORY → 180876 ST
```



When design data that exceeds memory capacity is input, error code “2BA” will be displayed. (Refer to p.86)

**(10) Data input by pressing “Set”**

```
**** SELECT DATA ****
09/23 → BELL.DST
STITCH → 2451 ST
MEMORY → 180876 ST
```



When you input “\*.TBF” data, it will be set after you press “Set”.

```
***** EMB START *****
BELL.TBF          ◆1
                  0/ 2451
01/04: A6B3      <D>
```

**(11) Setting of needle bar step**

```
*** COLOR CHANGE ***
MODE → AUTO
01/04: 
```



When there is no “color change” setting in the input design data, set needle bar number(s) to needle bar step(s). (Refer to p.40)

**(12) Press “Set”.**

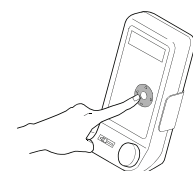
```
*** COLOR CHANGE ***
MODE → AUTO
01/04: B57
```



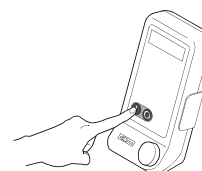
The left screen shows that needle bar numbers of color change order are 11th needle (B), 5th needle, 7th needle and 3rd needle.

**(13) Display of “EMB START” screen**

```
***** EMB START *****
BELL.DST          ◆1
                  0/ 2451
01/04: B573      <D>
```

**(14) Set the product to the tubular goods frame. (In case of tubular goods frame)****(15) Attach tubular goods frame to the embroidery machine.****(16) Check passing of upper thread, put a bobbin on which under thread is wound in a bobbin case and attach the bobbin case to the rotary hook.****(17) Press “Trace” key to check position and size of embroidery. If the position is improper, adjust the position of the frame by using “Frame travel key”. (Refer to p.71)****(18) When the frame position is correct, press the “Start” switch. Embroidery will start.**

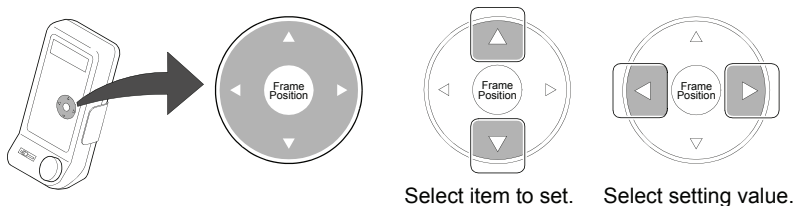
Frame travel switch










Start switch

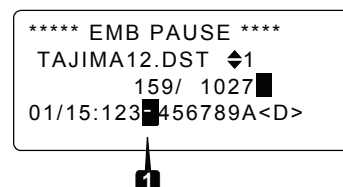
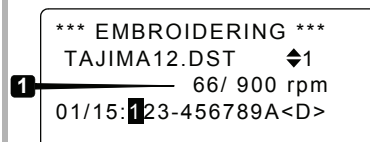
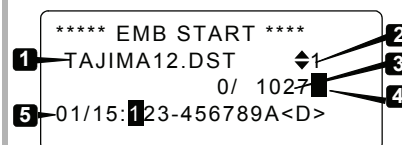
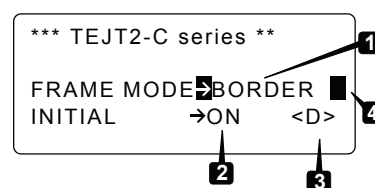
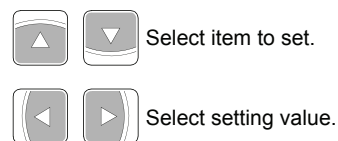
## 6. EXPLANATION ON THE SCREEN

The followings are explanations for LCD screens displayed at each condition and operation keys that can change setting.




















### ●Main















Power ON	<p>Start screen:</p> <p><b>1</b> Frame mode (FLAT/CAP/CYLNDR/BORDER/X-WIDE)  </p> <p><b>2</b> Origin search (ON: to perform/OFF: not to perform)  </p> <p><b>3</b> Needle bar No. being selected at present (9: 9th needle/A: 10th needle/B: 11th needle/C: 12th needle/D: 13th needle/E: 14th needle/F: 15th needle)</p> <p><b>4</b> Fixed position indicator mark</p>
At the start of embroidery	<p><b>1</b> Design name</p> <p><b>2</b> FB/FF feed unit (1, 10, 100, C, n-stitches) </p> <p><b>3</b> The current number of stitches/the number of total stitches of design</p> <p><b>4</b> Fixed position indicator mark</p> <p><b>5</b> The current step/the number of total steps: needle bar numbers of color change order</p>
When embroidering	<p><b>1</b> The current number of stitches/the number of total stitches&lt;==&gt;The current number of stitches/maximum number of revolutions (rpm)</p> <p> Set switching of display at "SCREEN" of machine setting. (Refer to p.50)</p>
At machine stop	<p><b>1</b> Stop by temporary stop</p> <p> To insert "-: Temporary stop" by needle bar setting and make the machine stop temporarily before it changes color automatically. (Refer to p.42)</p>



## ●Data set menu:
















Press  on “EMB START” screen.

Data input	<p><b>1</b> Switching of data input (PC: personal computer (DG/ML) or input from this machine/USB: input from the USB port/BAR: input from a bar code reader connected to the USB port)   + </p> <p>◆Input from a personal computer/this machine</p> <p><b>a</b> Label name</p> <p><b>b</b> Memory capacity</p> <p>◆Input from a USB memory/floppy connected to the USB port</p> <p><b>c</b> Design No.→File name  </p> <p><b>d</b> The number of stitches of design</p> <p><b>e</b> Memory capacity</p>	<div> <p>***** DATA MENU ****</p> <p>1. INPUT DATA→ PC</p> <p>2. SELECT DATA</p> <p>3. DELETE DATA</p> </div> <div> <p>***** PCINPUT ****</p> <p>NAME→ DATA-01</p> <p>MEMORY→ 56897 ST</p> </div> <div> <p>***** SELECT DATA ***</p> <p>01/23 → BIRD.TBF</p> <p>STITCH→ 10713 ST</p> <p>MEMORY→ 180876 ST</p> </div>
Design selection	<p><b>2</b> Memory design selection </p> <p><b>a</b> Memory No./the number of total designs→File name  </p> <p><b>b</b> The number of stitches of design</p> <p><b>c</b> Memory capacity</p> <p>◆Design information</p> <p>After selecting a design  </p> <p>Design information 1: X size, position of right/left direction from the absolute coordinates</p> <p>Design information 2: Y size, position of front/rear direction from the absolute coordinates</p> <p>Design information 3: the number of color changes (total steps), end position of XY</p> <p> To return to data select screen</p>	<div> <p>***** DATA MENU ****</p> <p>1.INPUT DATA→ PC</p> <p>2. SELECT DATA</p> <p>3. DELETE DATA</p> </div> <div> <p>***** SELECT DATA ***</p> <p>01/12 → BIRD.TBF</p> <p>STITCH → 10713 ST</p> <p>MEMORY→ 180876 ST</p> </div> <div> <p>*** INFORMATION1 ****</p> <p>X SIZE → 72.7 mm</p> <p>+X SIZE → 40.8 mm</p> <p>-X SIZE → 31.9 mm</p> </div> <div> <p>*** INFORMATION3 ****</p> <p>COLOR→ 18</p> <p>END X → - 0.6mm</p> <p>END Y → + 0.1mm</p> </div>
Deleting design	<p><b>3</b> Deletion of memory design </p> <p>◆Design selection</p> <p><b>a</b> Memory No./the number of total memories→Design name</p> <p>  + </p> <p><b>b</b> The number of stitches of memory design</p> <p><b>c</b> Memory capacity</p> <p>◆Confirming deletion</p> <p><b>a</b> Y (yes)  N (no) </p>	<div> <p>***** DATA MENU ****</p> <p>1.INPUT DATA→ PC</p> <p>2.SELECT DATA</p> <p>3. DELETE DATA</p> </div> <div> <p>*** DELETE DESIGN **</p> <p>01/12 → TAJIMA12.DST</p> <p>STITCH → 1027 ST</p> <p>MEMORY→ 180876 ST</p> </div> <div> <p>*** DELETE DESIGN **</p> <p>DELETE OK?</p> <p>[Y=SET,N=ESC]</p> </div>

Input mode	<p><b>4</b> Input mode of memory design </p> <p><b>a</b> Mode selection (single/multi)  </p> <p> Single: It is possible to perform embroidery without storing data in the memory. Multi: Input data to the memory.</p>	<pre>***** DATA MENU ***** 2. SELECT DATA 3. DELETE DATA 4. INPUT MODE _____</pre> <p><b>4</b></p>
Memory clear	<p><b>5</b> Memory clear </p> <p> Deleting all design data inputted to the machine</p> <p><b>a</b> Y (yes)  N (no) </p>	<pre>***** DATA MENU ***** MEMORY→MULTI _____</pre> <p><b>a</b></p>
Needle bar selection	<p>●Color change setting: Press  on “EMB START” screen.</p>	<pre>***** DATA MENU ***** 3. DELETE DATA 4. MEMORY MODE 5. INITIAL MEMORY _____</pre> <p><b>5</b></p>
	<p><b>a</b> The current step/the number of total steps: order of color change   + numerical key</p> <p> It is possible to perform setting even in the middle of embroidery if the machine stops.</p> <p><b>b</b> In the state of needle bar stopped temporarily</p> <p> Insert “-: Temporary stop” using . Pressing it once again will cancel the insertion.</p>	<pre>** INITIAL MEMORY ** DELETE ALL DATA OK? [Y=SET,N=ESC]</pre> <p><b>a</b></p>
		<pre>*** COLOR CHANGE *** MODE→AUTO STOP _____</pre> <p><b>a</b> 04/15:123-4<b>b</b> 56789ABCD</p>

●Data setting: Press  on “EMB START” screen.

**Data setting**

- 1 Size X (80-120%, in increments of 1%)  
- 2 Size Y (80-120%, in increments of 1%)  
- 3 Rotation (45-deg unit)  
- 4 Mirror image reversion (OFF/X: reversion based on X-axis/Y: reversion based on Y-axis)  
- 5 Repeat 
  - Repeat setting
  - a Repeat direction (X/Y)  
  - b The number of repeats in X, Y (1-99)  
  - c Design interval in X, Y (0-255 mm)  

\*\*\* DESIGN EDIT \*\*\*

- 1 SIZE X → 100% — 1
- 2. SIZE Y → 100% — 2
- 3. ROTATE → 0° — 3

\*\*\* DESIGN EDIT \*\*\*

- 3. ROTATE → 0°
- 4. REVERSE → OFF — 4
- 5 REPEAT → [SET] — 5

\*\* REPEAT SETTING \*\*













- PRIOR → HORIZONTAL — a
- X TIMES → 1
- Y TIMES → 1 — b

\*\* REPEAT SETTING \*\*

- Y TIMES → 1
- X SPACE → 0 mm
- Y SPACE → 0 mm — c

●Frame setting: Press  on “EMB START” screen.

**Frame setting**

- 1 Manual frame travel speed (1-3)  
- 2 Offset movement (automatic/manual)  
- 3 Origin return after finishing of embroidery (automatic/manual)  
- 4 Frame type (flat frame/cap frame/cylindrical frame/border frame/x-wide border frame)  
- 5 Origin search (ON: to perform/OFF: not to perform)  
- 6 Trace mode (square/contour)  

\*\*\* FRAME SETTING \*\*

- 1 MANUAL SPD → 1 — 1
- 2. OFFSET → MANUAL — 2
- 3. ORIGIN RTN → MANUAL — 3



\*\*\* FRAME SETTING \*\*


- 4 FRAME MODE → FLAT — 4
- 5. INITIALIZE → ON — 5
- 6. TRACE MODE → SQUARE — 6

●Machine setting: Press  on “EMB START” screen.


Machine

**1** Display (stitch/rpm)  



**2** Thread breakage sensor (OFF/1-5)  



**3** Preset halt    
Set



○Preset setting



**a** Specified by the number of stitches (99999st: max)  It is possible to clear.

**b** The number of stitches of halt for lubrication (10000-990000st: 10000 unit) numerical key



**4** Thread trim length (1 to 17)  



**5** Thread trim timing (-10 to +10)  



**6** Jump conversion (0-9st)  


**7** Auto jump (OFF/4.0 to 9.9 mm)  

**8** Frame drive timing (AUTO/250-deg)  

**9** The number of inchings at start (2-9 times)  

**A** Tie stitching (So: “To perform” at start/S-: “Not to perform” at start Eo: “To perform” at end of embroidery/E-: “Not to perform” at end of embroidery)  



**B** Satin stitch (-: without correction, 1-5: unit 0.1 mm)  


**C** Boring (OFF/1/2)  

**D** Cording (ON/OFF)  


**E** Sequin    
Set


○Sequin setting

**a** Up/down of sequin device (U: up/D: down)  


 The machine will not work when you do not select needle bar with sequin device.


**b** Feed amount of sequin (OFF/4.0 to 9.9 mm)  


**c** Manual sequin chip feed 

 The machine will not work when you do not select needle bar with sequin device.


\*\* MACHINE SETTING \*


1. SCREEN → ST  **1**

2. THREAD SNS → 2  **2**


3. PRESET HLT → [SET]  **3**


\*\*\*\* PRESET HALT \*\*\*\*


STITCHES → 1278 ST  **a**

OILING → 30000 ST  **b**


\*\* MACHINE SETTING \*


4. TRIM LENG → 1  **4**


5. TRIM TMNG → + 0  **5**

6. JUMP CONV → 3 ST  **6**


\*\* MACHINE SETTING \*


7. AUTO JUMP → OFF  **7**


8. A/S TMNG → AUTO  **8**

9. INCHING → 2 ST  **9**

\*\* MACHINE SETTING \*

A. TIE SET → So Eo  **A**

B. SATIN ADJ → OFF  **B**


C. BORING → OFF  **C**


\*\* MACHINE SETTING \*

D. CORDING → OFF  **D**

E. SEQUIN → [SET]  **E**

\*\*\*\*\* SEQUIN \*\*\*\*\*

UP/DOWN → U > D  **a**


SEQUIN L → 6.7mm  **b**

SEQUIN R → OFF

\*\*\*\*\* SEQUIN \*\*\*\*\*

SEQUIN L → 6.7mm

SEQUIN R → OFF

FEED → Fn < > F  **c**



## Chapter 4 Data set menu

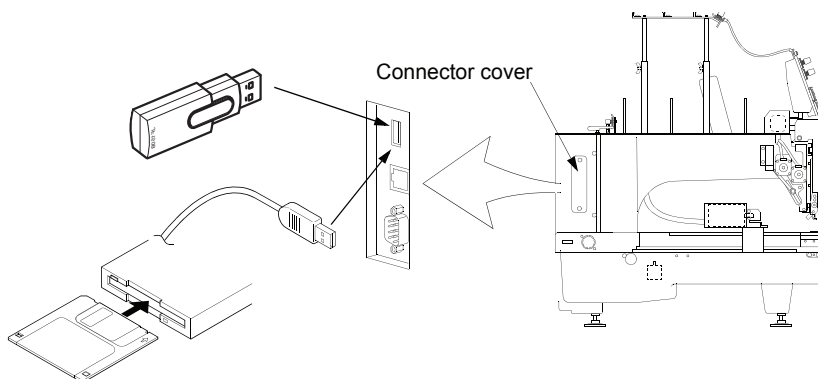
1. DATA INPUT (USB PORT) .....	P.28
2. DATA INPUT (USB-CORRESPONDENT BAR CODE READER) .....	P.29
3. INPUT DATA (SERIAL CONNECTION) .....	P.31
4. DATA INPUT (LAN CONNECTION) .....	P.33
5. SELECTION OF DATA .....	P.34
6. DELETION OF DATA .....	P.35
7. INPUT MODE .....	P.36
8. INITIAL MEMORY .....	P.37



## 1. DATA INPUT (USB PORT)

Input design data from the USB port to this machine using a USB memory or floppy disk. Data of input design will be set (data set).

- (1) After removing two pieces of screw to detach the connector cover, insert a USB memory or floppy disk drive to the USB port.



Data set means making the machine embroider design data.



It is not possible to write data to a USB memory currently.

- (2) Switching to “DATA SET MENU”

```

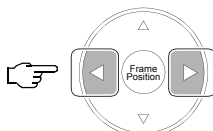
**** EMB START ****
TAJIMA12.DST 1
0/ 1027
01/15: 123-456789A<D>
  
```



- (3) Select “USB”.

```

**** DATA MENU ****
1. INPUT DATA → PC
2. SELECT DATA
3. DELETE DATA
  
```



The black square blinking on the screen is the item you are selecting.

1. INPUT DATA → USB

- (4) Reading data from the USB port

```

*** DATA SET MENU **
1. INPUT DATA → USB
2. SELECT DATA
3. DELETE DATA
  
```



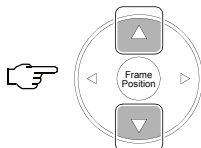
When the machine is reading design data, it will be displayed as shown below.

FILE SEARCHING

- (5) Selection of design data

```

**** SELECT DATA ***
01/23 → BIRD.TBF
STITCH → 10713 ST
MEMORY → 180876 ST
  
```



When design data that exceeds memory capacity is input, error code “2BA” will be displayed. (Refer to p.88)

**(6) Input**

```
**** SELECT DATA ***
09/23 → BELL.DST
STITCH→ 2451 ST
MEMORY→ 180876 ST
```



When you input “\*.TBF” data, it will be set after pressing “Set”.

```
***** EMB START *****
BELL.TBF      ↕1
              0/ 2451 ■
01/04: A6B3   <D>
```

**(7) Setting of needle bar step**

```
*** COLOR CHANGE ***
MODE→AUTO
01/04: ■
```



When there is no “color change” setting in the input design data, set needle bar number(s) to needle bar step(s).

(Refer to p.40)

**(8) Press “Set”.**

```
*** COLOR CHANGE ***
MODE→AUTO
01/04: B57 ■
```

**(9) Completion**

```
***** EMB START *****
BELL.DST      ↕1
              0/ 2451 ■
01/04: B573   <D>
```

## 2. DATA INPUT (USB-CORRESPONDENT BAR CODE READER)

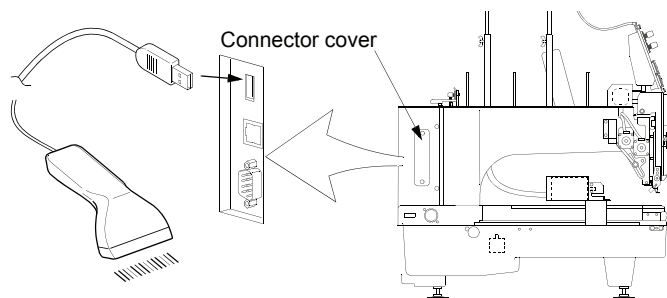
Input design data from the USB port to this machine using a bar code reader. Data of input design will be set (data set).



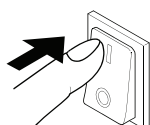
Data set means making the machine embroider design data.

**(1) Connect the personal computer that contains DG/ML to the embroidery machine by LAN cable and start design spooler.**

**(2) After removing two pieces of screw to detach the connector cover, insert a bar code reader to the USB port.**



**(3) To turn ON the power of this machine**



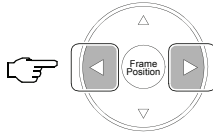
(4) Switching to "DATA SET MENU"

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15:123-456789A<D>



(5) Select "BAR".

\*\*\*\*\* DATA MENU \*\*\*\*\*  
1. INPUT DATA→ PC  
2. SELECT DATA  
3. DELETE DATA



The black square blinking on the screen is the item you are selecting.

1. INPUT DATA→ BAR

(6) Reading data from the USB port

\*\*\* DATA SET MENU \*\*  
1. INPUT DATA→ BAR  
2. SELECT DATA  
3. DELETE DATA



When a bar code reader is connected badly or not connected, error code "BC3" will be displayed.

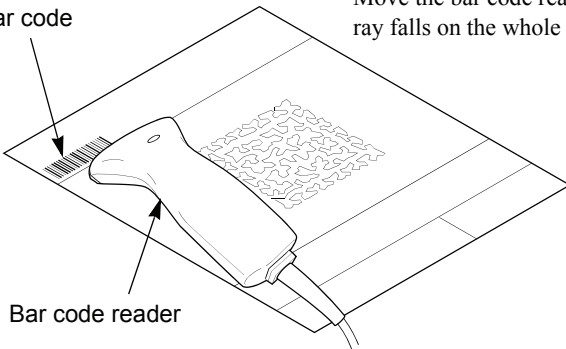
(7) Screen waiting for input

\*\*\*\*\* DATA INPUT \*\*\*  
SCAN BAR CODE

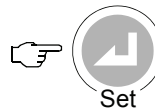
(8) Input

Bar code

Move the bar code reader so that infra-red ray falls on the whole of bar code.



Bar code reader



When you input "\*.TBF" data, it will be set after "Setting".

\*\*\*\*\* EMB START \*\*\*\*\*  
BELL.TBF ◆1  
0/ 2451  
01/04:A6B3 <D>



When design data is not found in design spooler on personal computer, error code "BC1" will be displayed.

(9) Setting of needle bar step

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
01/04:



When there is no "color change" setting in the input design data, set needle bar number(s) to needle bar step(s).  
(Refer to p.40)

(10) Press "Set".

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
01/04:B573



**(11) Completion**

```

***** EMB START *****
BELL.DST  ◆1
           0/ 2451
01/04: 573  <D>

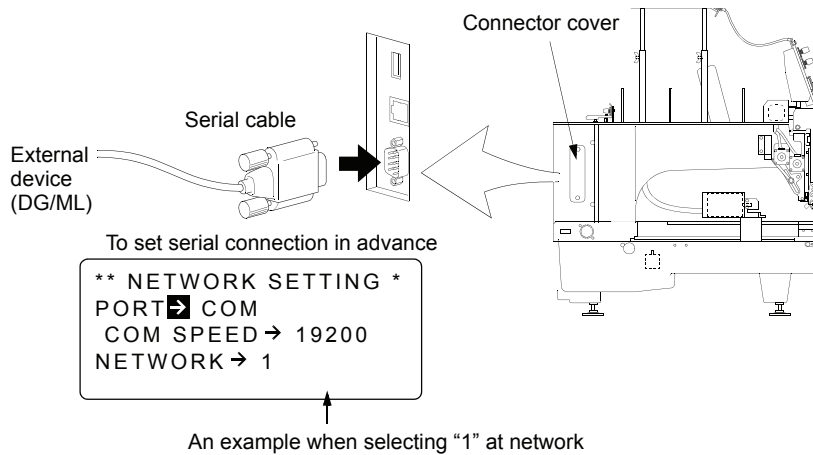
```



Data of input design will be set.

**3. INPUT DATA (SERIAL CONNECTION)**

The following is explanation when this serial-connected machine receives design data transmitted from an external device (DG/ML) that is connected to network. Data of input design will be set.

**(1) After removing two pieces of screw to detach the connector cover, check serial cable connection and “NETWORK SETTING”.**

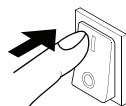
When connecting the cable, turn OFF the power of the machine and external device.



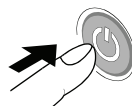
When performing connection with an external device, the exclusive cable is necessary.



Set “COM” in test mode in advance and set “NETWORK” to “1” or “2”. (Refer to p.107)

**(2) Turn ON the power.**

This machine



External device



When turning ON the power of the machine, turn also on the power of the external device.

**(3) Switching to “DATA SET MENU”**

```

***** EMB START *****
TAJIMA12.DST ◆1
           0/ 1027
01/99: 123-56789AB<D>

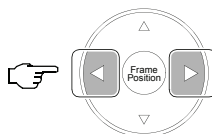
```

**(4) Select “PC”.**

```

***** DATA MENU *****
1.DATA INPUT USB
2.SELECT DATA
3.DELETE DATA

```

**(5) Receiving of design data by pressing “Set” (In case of Network “2”: to (8))**

```

***** DATA MENU *****
1.DATA INPUT PC
2.SELECT DATA
3.DELETE DATA

```



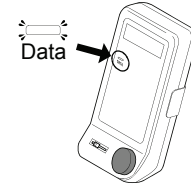
Press “Set” key to make the machine become in the state of receiving.

(6) Press “Set” (In case of Network “1”).

\*\*\*\*\* PCINPUT \*\*\*\*\*  
NAME→ DATA-01  
MEMORY→ 56897 ST



During data transfer, “Data” lamp will blink.



(7) Completion of data set (In case of Network “1”)

\*\*\*\*\* EMB START \*\*\*\*\*  
DATA-01  
0/ 56897  
01/12: 123456789AB<D>

When the machine reads “DST” data, the screen as shown below will appear after input of design data.

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
01/12:

Refer to color change setting.  
(Refer to p.40)

(8) Searching of design data by pressing “Set” (In case of Network “2”: from (5))

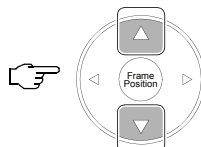
\*\*\*\*\* DATA MENU \*\*\*\*\*  
1.DATA INPUT PC  
2.SELECT DATA  
3.DELETE DATA



It is possible to check design information registered in an external device DG/ML on this machine side by pressing “Set” key.

(9) Select design data (In case of Network “2”).

\*\*\*\*\* SELECT DATA \*\*\*\*\*  
1 → SOCKS.DST  
STITCH → 3119 ST  
MEMORY→ 257536 ST



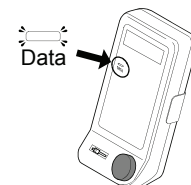
When design data that exceeds memory capacity is input, error code “2BA” will be displayed.(Refer to p.86)

(10) Press “Set” (In case of Network “2”).

\*\*\*\*\* SELECT DATA \*\*\*\*\*  
3 → D-01.DST  
STITCH → 1932 ST  
MEMORY→ 257536 ST



During data transfer, “Data” lamp will blink.



**(11) Completion of data set (In case of Network "2")**

```

***** EMB START *****
D-01      ◆1
          0/ 1932
01/05: 12345 <D>

```



When the machine reads "DST" data, the screen as shown below will appear after input of design data.

```

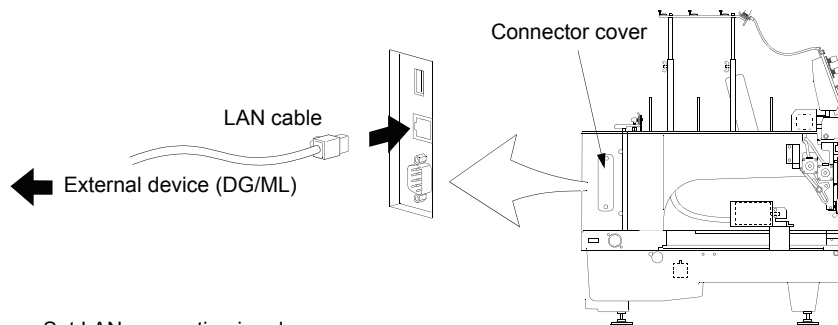
*** COLOR CHANGE ***
MODE→AUTO
01/05:

```

Refer to color change setting.  
(Refer to p.40)

**4. DATA INPUT (LAN CONNECTION)**

The following is explanation when this LAN-connected machine inputs design data of an external device (DG/ML) that is connected to network. Data of input design will be set.

**(1) After removing two pieces of screw to detach the connector cover, check LAN cable connection and "NETWORK SETTING".**

Set LAN connection in advance.

```

** NETWORK SETTING *
PORT      [X] LAN
MACHINEIP → [SET]
SPOOLER 1P → [SET]

```

```

***** MACHINE IP *****
TCP/IP    [X] AUTO

```

```

***** SPOOLER IP *****
SEARCH    [X] AUTO

```



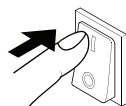
When connecting the cable, turn OFF the power of the machine and external device.



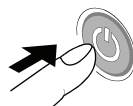
When performing connection with an external device, the exclusive cable is necessary.



In case of LAN connection, set to "LAN" by test mode and check if "MACHINE IP" and "SPOOLER IP" are set to "AUTO".  
(Refer to p.104)

**(2) Turn ON the power.**

This machine



External device



When turning ON the power of the machine, turn also on the power of the external device to start DG/ML.

**(3) Switching to "DATA SET MENU"**

```

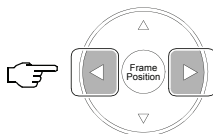
***** EMB START *****
TAJIMA12.DST ◆1
          0/ 1027
01/99: 123-56789AB<D>

```



(4) Select "PC".

\*\*\*\*\* DATA MENU \*\*\*\*\*  
1.DATA INPUT  USB  
2.SELECT DATA  
3.DELETE DATA



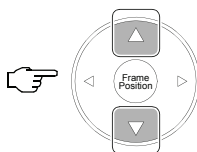
(5) Searching of design data by pressing "Set"

\*\*\*\*\* DATA MENU \*\*\*\*\*  
1.DATA INPUT  PC  
2.SELECT DATA  
3.DELETE DATA



(6) Select design data.

\*\*\*\* SELECT DATA \*\*\*  
1 → SOCKS.DST  
STITCH → 3119 ST  
MEMORY → 257536 ST



(7) Press "Set".

\*\*\*\* SELECT DATA \*\*\*  
3 → D-01.DST  
STITCH → 1932 ST  
MEMORY → 257536 ST



(8) Completion of data set

\*\*\*\*\* EMB START \*\*\*\*\*  
D-01  1  
0/ 1932   
01/05:  12345 <D>



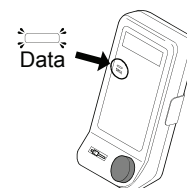
It is possible to check design information registered in an external device DG/ML on this machine side by pressing "Set" key.



When design data that exceeds memory capacity is input, error code "2BA" will be displayed.(Refer to p.88)




During data transfer, "Data" lamp will blink.



When the machine reads "DST" data, the screen as shown below will appear after input of design data.

\*\*\* COLOR CHANGE \*\*\*  
MODE → AUTO




01/05: 

Refer to color change setting.  
(Refer to p.40)

## 5. SELECTION OF DATA

Set data of design stored in the memory of this machine.

(1) Switching to "DATA SET MENU"

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST  1  
0/ 1027   
01/15:  123-456789A <D>



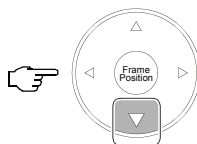


**(2) Select "SELECT DATA".**

```

***** DATA MENU *****
1. INPUT DATA → PC
2. SELECT DATA
3. DELETE DATA

```

**(3) Press "Set".**

```

***** DATA MENU *****
1. DATA INPUT → PC
2. SELECT DATA
3. DELETE DATA

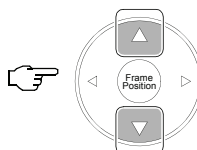
```

**(4) Selection of design data**

```

**** SELECT DATA ***
01/12 → BIRD.TBF
STITCH → 10713 ST
MEMORY → 180876 ST

```

**(5) Data set**

```

**** SELECT DATA ***
07/12 → FLOWER.TBF
STITCH → 3972 ST
MEMORY → 180876 ST

```

**(6) Completion**

```

***** EMB START *****
FLOWER.TBF 1
0/ 3972
01/05: 59AB <D>

```

**6. DELETION OF DATA**

Select design data stored in the memory of this machine to delete.

**(1) Switching to "DATA SET MENU"**

```

***** EMB START *****
TAJIMA12.DST 1
0/ 1027
01/15: 23-456789A <D>

```



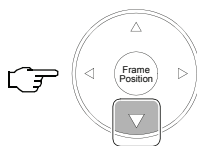
When it is not possible to input design data into the memory, delete unnecessary design data to keep memory capacity.

**(2) Select "DELETE DATA".**

```

***** DATA MENU *****
1. INPUT DATA → PC
2. SELECT DATA
3. DELETE DATA

```

**(3) Press "Set".**

```

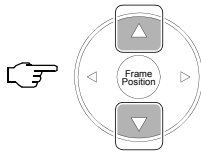
***** DATA MENU *****
1. DATA INPUT → PC
2. SELECT DATA
3. DELETE DATA

```



#### (4) Selection of design data

```
*** DELETE DESIGN **
07/12  → FLOWER.TBF
STITCH → 3972 ST
MEMORY→ 180876 ST
```



#### (5) Delete

```
*** DELETE DESIGN **
07/12  → FLOWER.TBF
STITCH → 3972 ST
MEMORY→ 180876 ST
```



#### (6) Confirm

```
*** DELETE DESIGN **
DELETE OK?
[Y=SET,N=ESC]
```



#### (7) Completion

```
*** DELETE DESIGN **
07/11 DOG.DST
STITCH → 3972 ST
MEMORY→ 180876 ST
```



It is possible to perform deletion continuously even after deleting one data.



To return to "EMB START SCREEN", press "Escape" key twice.

## 7. INPUT MODE

When you input design data, set whether you store the data into the memory or not.

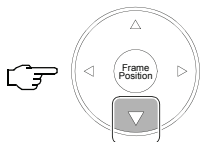
#### (1) Switching to "DATA SET MENU"

```
***** EMB START *****
TAJIMA12.DST 1
0/ 1027
01/15:123-456789A<D>
```



#### (2) Select "INPUT MODE".

```
***** DATA MENU *****
1 INPUT DATA→ PC
2.SELECT DATA
3.DELETE DATA
```



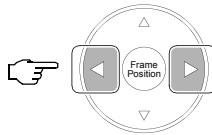
#### (3) Press "Set".

```
***** DATA MENU *****
2.SELECT DATA
3.DELETE DATA
4 MEMORY MODE
```



**(4) Selection of mode**

```
***** DATA MENU *****
MEMORY→MULTI
```

**(5) Press “Set”.**

```
***** DATA MENU *****
MEMORY→SINGLE
```

**(6) Completion**

```
***** DATA MENU *****
1. INPUT DATA→ PC
2. SELECT DATA
3. DELETE DATA
```



Multi: stores input design into the memory  
Single: only one design data is stored in the memory. When the next data is input, the original data will be overwritten.



When you set memory mode, data set will be canceled.



When you set “SINGLE”, input data from a USB memory/floppy disk/ personal computer.



To return to “EMB START SCREEN”, press “Escape” key.

**8. INITIAL MEMORY**

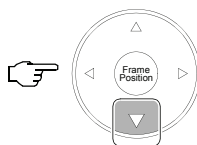
Delete all design data stored in the memory of this machine.

**(1) Switching to “DATA SET MENU”**

```
***** EMB START *****
TAJIMA12.DST 1
0/ 1027
01/15: 123-456789A<D>
```

**(2) Select "INITIAL MEMORY".**

```
***** DATA MENU *****
1. INPUT DATA→ PC
2. SELECT DATA
3. DELETE DATA
```

**(3) Press “Set” to initialize**

```
***** DATA MENU *****
3. DELETE DATA
4. MEMORY MODE
5. INITIAL MEMORY
```

**(4) Press “Set” to execute**

```
** INITIAL MEMORY **
DELETE ALL DATA OK?
[Y=SET,N=ESC]
```



During initializing of memory, it will be displayed as the illustration below.

```
*** INITIALIZING **
```

(5) Completion

```
***** DATA MENU ****
1. INPUT DATA → PC
2. SELECT DATA
3. DELETE DATA
```



All design data has been deleted.  
Input data at this point.  
To return to “EMB START SCREEN”  
without data input, press “Escape”  
key.

```
***** EMB START ****
.
01/00: 0/ 0 1
(D)
```

## Chapter 5 Color change

- 1. INPUT OF NEEDLE BAR STEP .....P.40
- 2. NEEDLE BAR SETTING (CHANGE OF STEP) .....P.41
- 3. SETTING FOR TEMPORARY STOP .....P.42



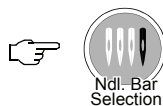
**Ndl. Bar  
Selection**

## 1. INPUT OF NEEDLE BAR STEP

Set needle bar No. to needle bar step.

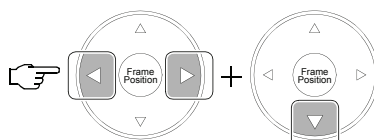
### (1) Switching to "COLOR CHANGE"

\*\*\*\*\* EMB START \*\*\*\*\*  
BELL.TBF 0/ 2451  
01/04: <D>



### (2) Auto color change

\*\*\* COLOR CHANGE \*\*\*  
MODE → AUTO  
04/04:



### (3) Input needle bar No. (Example: Needle bar No.11)

\*\*\* COLOR CHANGE \*\*\*  
MODE → AUTO  
01/04:



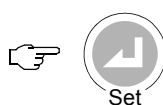
### (4) Input needle bar No. to the next step.

\*\*\* COLOR CHANGE \*\*\*  
MODE → AUTO  
02/04: B



### (5) Press "Set" after inputting all needle bar numbers.

\*\*\* COLOR CHANGE \*\*\*  
MODE → AUTO  
04/04: B573



### (6) Completion

\*\*\*\*\* EMB START \*\*\*\*\*  
BELL.TBF 0/2451  
01/04: B573 <D>



Setting value: auto/manual

AUTO	It is possible to perform automatic color change and automatic start.
MANUAL	The machine will not perform automatic color change and automatic start.



To set other needle bar continuously, repeat operations (3) to (4) and then press "Set" key.

Needle bar	1st needle	...	10th needle	11th needle
Operation	1		10 + 1	10 + 1
Display	1	...	A	B



Set needle bar numbers to all steps.



When the number of setting needle bars is less than the number of color change steps, the remaining steps will be automatically complemented.

Example: when setting needle bar numbers up to 2 steps in case of 7 steps

Needle bar step	1	2	3	4	5	6	7
Needle bar No.	2	5	2	5	2	5	2

◻ : Complemented needle bar numbers

2. NEEDLE BAR SETTING (CHANGE OF STEP)

Change needle bar No. of needle bar step.

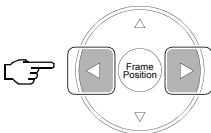
(1) Switching to “COLOR CHANGE”

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST    ◆1  
                  0/ 1027  
01/15: 1 23456789AB<D>



(2) Select needle bar step.

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
01/15: 1 23456789ABCDE



(3) Input needle bar No. (Example: Needle bar No.11)

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
02/15: 1 23456789ABCDE



To set other needle bar continuously, repeat operations (2) to (3) and then press “Set” key.

Needle bar	1st needle	...	10th needle	11th needle
Operation			+	+
Display	1	...	A	B

(4) Press “Set” after inputting all needle bar numbers.

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
03/15: 1B 3456789ABCDE



(5) Completion

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST    ◆1  
                  0/ 1027  
01/15: 1 B3456789AB<D>

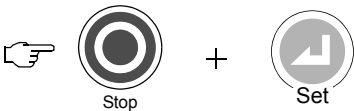
[Example] In case of same-color step

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
03/15: 12 2456789AB<2>

When the next step is the same needle bar, the machine will stop and then will start automatically. At this moment, ATH will not work.

[Example] Insertion of temporary stop

\*\*\* COLOR CHANGE \*\*\*  
MODE→AUTO  
03/15: 12- 2456789A<2>



When temporary stop is inserted, the machine will not start automatically. Press “Start” switch to start the machine.

### 3. SETTING FOR TEMPORARY STOP

This setting makes the machine stop embroidery temporarily when the machine changes color.

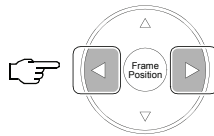
#### (1) Switching to "COLOR CHANGE"

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123456789AB<D>
```



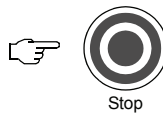
#### (2) Select needle bar step.

```
*** COLOR CHANGE ***
MODE→AUTO
01/15:123456789ABCDE
```



#### (3) Select needle bar (Example: Stop before needle bar step 4)

```
*** COLOR CHANGE ***
MODE→AUTO
04/15:123456789ABCDE
```



#### (4) Press "Set".

```
*** COLOR CHANGE ***
MODE→AUTO
      STOP
04/15:123-456789ABCD
```



#### (5) Completion

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123-456789A<D>
```



To set other needle bar step continuously, repeat operations (2) to (3) and then press "Set" key.



When you set temporary stop, "—" will be inserted just before the set step. Pressing "Stop" switch again will cancel temporary stop.



When you perform embroidery with frame setting "OFFSET" set to AUTO, the frame will move to the offset position before color change and the machine will stop temporarily.



# Chapter 6   Design edit

1. SIZE .....	P.44
2. ROTATION .....	P.44
3. REVERSE .....	P.45
4. REPEAT .....	P.46



## 1. SIZE

Embroider design stored in the memory with its image enlarged/reduced.

### (1) Switching to “DESIGN EDIT”

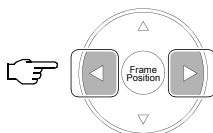
```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123456789AB<D>
```



Regarding the detail of size, refer to outline of function.  
(Refer to p.81)

### (2) Change size.

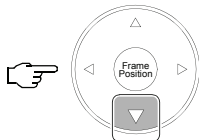
```
*** DESIGN EDIT ***
1.SIZE X  → 100%
2.SIZE Y  → 100%
3.ROTATE  → 0°
```



Select scale factor (80-120%). When you change X size, Y size will be changed automatically to the same value.

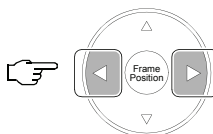
### (3) Select Y size.

```
*** DESIGN EDIT ***
1.SIZE X  → 120%
2.SIZE Y  → 120%
3.ROTATE  → 0°
```



### (4) Change Y size.

```
*** DESIGN EDIT ***
1.SIZE X  → 120%
2.SIZE Y  → 120%
3.ROTATE  → 0°
```



### (5) Press “Set”.

```
*** DESIGN EDIT ***
1.SIZE X  → 120%
2.SIZE Y  → 80%
3.ROTATE  → 0°
```



To edit design continuously, select “ROTATE, REVERSE, REPEAT” without pressing “Set” key.

### (6) Completion

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123456789AB<D>
```

## 2. ROTATION

Embroider design stored in the memory with its image rotated.

### (1) Switching to “DESIGN EDIT”

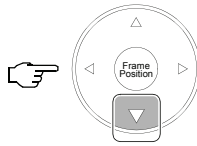
```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123456789AB<D>
```



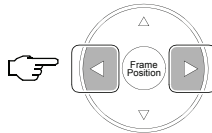
Regarding the detail of rotation, refer to outline of function. (Refer to p.80)

**(2) Select ROTATE.**

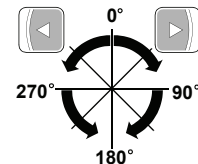
\*\*\* DESIGN EDIT \*\*\*  
 1. SIZE X → 100%  
 2. SIZE Y → 100%  
 3. ROTATE → 0°

**(3) Select angle.**

\*\*\* DESIGN EDIT \*\*\*  
 1. SIZE X → 100%  
 2. SIZE Y → 100%  
 3. ROTATE → 0°



Design will be rotated in 45° unit.

**(4) Press “Set”.**

\*\*\* DESIGN EDIT \*\*\*  
 1. SIZE X → 100%  
 2. SIZE Y → 100%  
 3. ROTATE → 180°



To edit design continuously, select “SIZE, REVERSE, REPEAT” without pressing “Set” key.

**(5) Completion**

\*\*\*\*\* EMB START \*\*\*\*\*  
 TAJIMA12.DST ◆1  
 0/ 1027  
 01/15: 123456789AB<D>

**3. REVERSE**

Embroider design stored in the memory with its image reversed.

**(1) Switching to “DESIGN EDIT”**

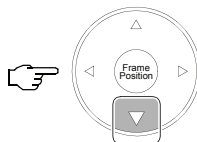
\*\*\*\*\* EMB START \*\*\*\*\*  
 TAJIMA12.DST ◆1  
 0/ 1027  
 01/15: 123456789AB<D>



Regarding the detail of reverse (mirror image reversion), refer to outline of function. (Refer to p.80)

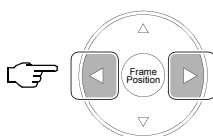
**(2) Select REVERSE.**

\*\*\* DESIGN EDIT \*\*\*  
 1. SIZE X → 100%  
 2. SIZE Y → 100%  
 3. ROTATE → 0°



## (3) Select reverse direction.

```
*** DESIGN EDIT ***
2.SIZE Y → 100%
3. ROTATE → 0°
4. REVERSE → OFF
```



## (4) Press "Set".

```
*** DESIGN EDIT ***
2.SIZE Y → 100%
3. ROTATE → 0°
4. REVERSE → Y
```

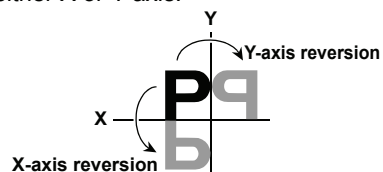


## (5) Completion

```
***** EMB START *****
TAJIMA12.DST ↕1
0/ 1027
01/15: 123456789AB<D>
```



Design will be reversed based on either X or Y-axis.



To edit design continuously, select "SIZE, ROTATE, REPEAT" without pressing "Set" key.

## 4. REPEAT

This function embroiders a design registered in the memory repeatedly.

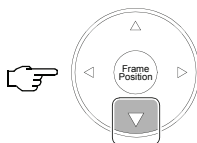
### (1) Switching to "DESIGN EDIT"

```
***** EMB START *****
TAJIMA12.DST ↕1
0/ 1027
01/15: 123456789AB<D>
```



### (2) Select REPEAT.

```
*** DESIGN EDIT ***
1. SIZE X → 100%
2. SIZE Y → 100%
3. ROTATE → 0°
```



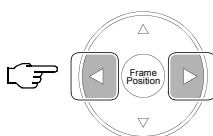
### (3) Press "Set".

```
*** DESIGN EDIT ***
3. ROTATE → 0°
4. REVERSE → OFF
5. REPEAT → [SET]
```



### (4) Setting of priority direction

```
** REPEAT SETTING **
PRIOR [X] HORIZONTAL
X TIMES → 1
Y TIMES → 1
```



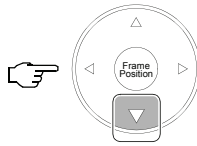
Direction: horizontal/vertical



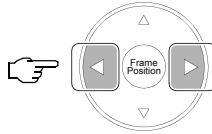
Direction: horizontal Direction: vertical

**(5) Selection of the number of X repeats**

\*\* REPEAT SETTING \*\*  
 PRIOR VERTICAL  
 X TIMES 1  
 Y TIMES 1

**(6) Setting for the number of X repeats**

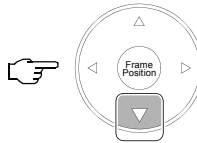
\*\* REPEAT SETTING \*\*  
 PRIOR VERTICAL  
 X TIMES 1  
 Y TIMES 1



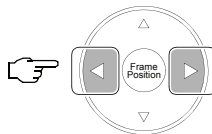
The number of times: 1 to 99

**(7) Selection of the number of Y repeats**

\*\* REPEAT SETTING \*\*  
 PRIOR VERTICAL  
 X TIMES 3  
 Y TIMES 1

**(8) Setting for the number of Y repeats**

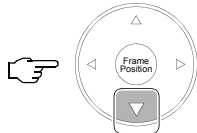
\*\* REPEAT SETTING \*\*  
 PRIOR VERTICAL  
 X TIMES 3  
 Y TIMES 2



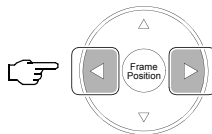
The number of times: 1 to 99

**(9) Selection of X space**

\*\* REPEAT SETTING \*\*  
 PRIOR VERTICAL  
 X TIMES 3  
 Y TIMES 2

**(10) Setting for X space**

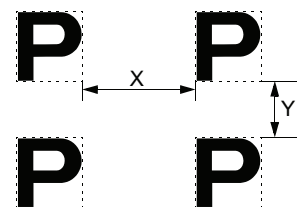
\*\* REPEAT SETTING \*\*  
 X TIMES 3  
 Y TIMES 2  
 X SPACE 0 mm



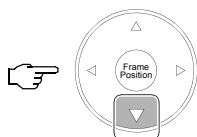
Space: 0 to 255 mm



Space means an interval between a design and the next design.

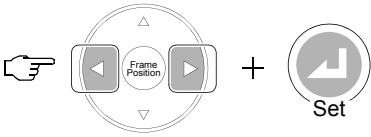
**(11) Selection of Y space**


\*\* REPEAT SETTING \*\*  
 X TIMES 3  
 Y TIMES 2  
 X SPACE 60mm



(12) Select Y space and press “Set”.

\*\* REPEAT SETTING \*\*  
Y TIMES → 2  
X SPACE→ 60 mm  
Y SPACE 15 mm



 Space: 0 to 255 mm  
To edit design continuously, press  
“Set” key once to select “SIZE,  
ROTATE, REVERSE”.

(13) Completion

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST 1  
0/ 1027  
01/15:123456789AB<D>

## Chapter 7 Machine setting

1. SCREEN .....	P.50
2. THREAD BREAKAGE SENSOR .....	P.50
3. PRESET HALT (STITCHES) .....	P.51
4. PRESET HALT (LUBRICATION) .....	P.52
5. THREAD TRIMMING LENGTH .....	P.53
6. THREAD TRIM TIMING .....	P.54
7. JUMP CONVERT .....	P.55
8. AUTO JUMP .....	P.55
9. A/S TIMING .....	P.56
10. THE NUMBER OF INCHING TIMES .....	P.57
11. TIE STITCHING .....	P.57
12. SATIN ADJUSTMENT .....	P.58
13. BORING .....	P.59
14. CORDING .....	P.60
15. SEQUIN .....	P.60



# 1. SCREEN

This setting makes the machine display the number of stitches/rpm during embroidery.

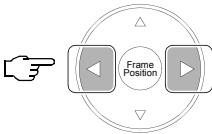
## (1) Switching to “MACHINE SETTING”

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST   ◆1  
                  0/ 1027  
01/15:123456789AB<D>



## (2) Select display mode.

\*\* MACHINE SETTING \*  
1.SCREEN       → ST  
2.THREAD SNS→ 2  
3.PRESET HLT → [SET]



Screen: ST/rpm  
The number of total stitches of  
design of which data is set

6/ 1027

The number of revolutions (rpm)  
during running of the machine

6/ 240 rpm

## (3) Press “Set”.

\*\* MACHINE SETTING \*  
1.SCREEN       → rpm  
2.THREAD SNS→ 2  
3.PRESET HLT → [SET]



## (4) Completion

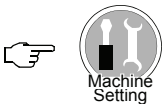
\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST   ◆1  
                  0/ 1027  
01/15:123456789AB<D>

# 2. THREAD BREAKAGE SENSOR

This is a setting for thread breakage detection.

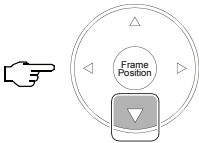
## (1) Switching to “MACHINE SETTING”

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST   ◆1  
                  0/ 1027  
01/15:123456789AB<D>



## (2) Select item to set.

\*\* MACHINE SETTING \*  
1.SCREEN       → ST  
2.THREAD SNS→ OFF  
3.PRESET HLT → [SET]



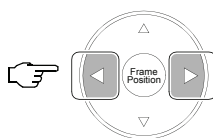


**(3) Select setting value.**

```

** MACHINE SETTING *
1.SCREEN      → ST
2.THREAD SNS → OFF
3.PRESET HLT → [SET]

```



Setting value: OFF, 1, 2, 3, 4, 5  
 OFF: not to detect thread breakage  
 1 to 5: to detect thread breakage by the number of setting stitches:  
 The smaller the value, the higher is the sensibility.

**(4) Press “Set”.**

```

** MACHINE SETTING *
1.SCREEN      → ST
2.THREAD SNS → 3
3.PRESET HLT → [SET]

```

**(5) Completion**

```

**** EMB START ****
TAJIMA12.DST  ◆1
               0/ 1027
01/15: 123456789AB<D>

```

**3. PRESET HALT (STITCHES)**

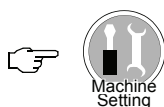
This setting makes this machine stop automatically when counting reaches the number of setting stitches.

**(1) Switching to “MACHINE SETTING”**

```

**** EMB START ****
TAJIMA12.DST  ◆1
               0/ 1027
01/15: 123456789AB<D>

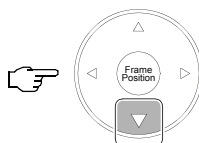
```

**(2) Select “PRESET HLT”.**

```

** MACHINE SETTING *
1.SCREEN      → ST
2.THREAD SNS → 2
3.PRESET HLT → [SET]

```

**(3) Press “Set”.**

```

** MACHINE SETTING *
1.SCREEN      → ST
2.THREAD SNS → 2
3.PRESET HLT → [SET]

```

**(4) Press “Set”.**

```

**** PRESET HALT ***
STITCHES [SET]
OILING   → [SET]

```



(5) Input the number of stitches (Example: stop at 28,000 stitches)

\*\*\*\* PRESET HALT \*\*\*  
 <STITCHES>  
 COUNTER → 0 ST  
 PRESET → 0 ST



Range of input value is 0 to 999,999.  
 0 does not make machine to perform preset halt.

(6) Press “Set”.

\*\*\*\* PRESET HALT \*\*\*  
 <STITCHES>  
 COUNTER → 0 ST  
 PRESET → 28000 ST



When “Counter” reaches 28000ST, it will be automatically reset to 0ST. To make “Counter” become 0ST before preset halt, press “Clear” key at item of “COUNTER”.



When the machine stops by preset halt, warning buzzer will sound and screen as the illustration below will appear.

\*\*\*\*\* EMB PAUSE \*\*\*\*\*  
 PRESET HLT  
 (293)

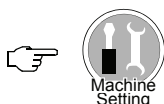
To reset, press “Stop” switch.

## 4. PRESET HALT (LUBRICATION)

When counting reaches the number of setting stitches, the screen will switch to “MAINT. REQUIRD” screen that urges you to perform lubrication.

(1) Switching to “MACHINE SETTING”

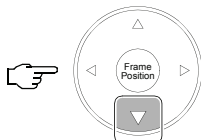
\*\*\*\*\* EMB START \*\*\*\*\*  
 TAJIMA12.DST ↕1  
 0/ 1027 ■  
 01/15: 123456789AB<D>



When you press “Start” switch and try to start the machine again after counter reached the number of setting stitches, the screen will switch to “MAINT. REQUIRD” screen. To reset, press “Stop” switch. (Refer to p.87)

(2) Select “PRESET HLT”.

\*\* MACHINE SETTING \*  
 1. SCREEN → ST  
 2. THREAD SNS → 2  
 3. PRESET HLT → [SET]



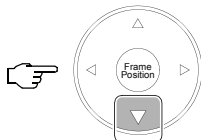
(3) Press “Set”.

\*\* MACHINE SETTING \*  
 1. SCREEN → ST  
 2. THREAD SNS → 2  
 3. PRESET HLT → [SET]

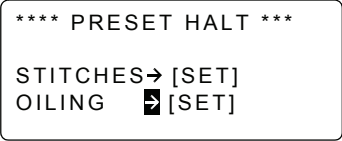


(4) Select “OILING” (Example: select preset halt for lubrication).

\*\*\*\* PRESET HALT \*\*\*  
 STITCHES [SET]  
 OILING → [SET]



(5) Press “Set”.



The default value is “100,000”.

(6) Input the number of stitches. (Example: Halt at 30,000 stitches)



Range of input value: 10,000 to 990,000(10,000 unit)

To correct, press “Clear” key to input a value again.

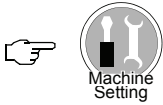
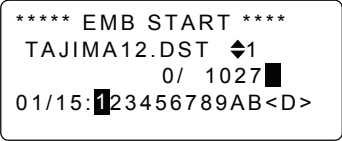
(7) Press “Set”.



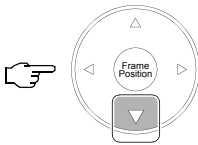
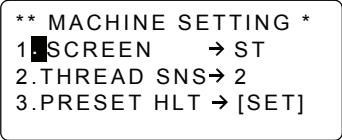
5. THREAD TRIMMING LENGTH

Set a remain tail length at thread trimming.

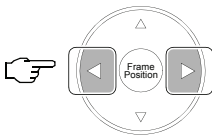
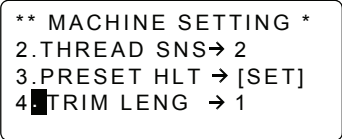
(1) Switching to “MACHINE SETTING”



(2) Switching of item to display



(3) Selection of setting value



Setting value: 1 to 17

Short 1 ← → 17 Long

## (4) Press "Set".

```
** MACHINE SETTING *
2.THREAD SNS→ 2
3.PRESET HLT → [SET]
4. TRIM LENG → 8
```



## (5) Completion

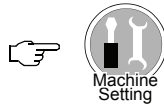
```
***** EMB START *****
TAJIMA12.DST ◆1
0/ 1027
01/15:123456789AB<D>
```

# 6. THREAD TRIM TIMING

Set timing when the machine starts to trim thread.

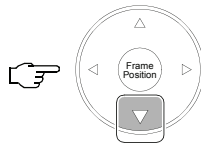
## (1) Switching to "MACHINE SETTING"

```
***** EMB START *****
TAJIMA12.DST ◆1
0/ 1027
01/15:123456789AB<D>
```



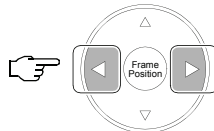
## (2) Switching of item to display

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS→ 2
3. PRESET HLT → [SET]
```



## (3) Selection of setting value

```
** MACHINE SETTING *
3. PRESET HLT→ [SET]
4. TRIM LENG → 1
5. TRIM TMNG → + 0
```



Setting value: -10 to -1, 0, +1 to +10

Fast ← -10 0 → +10 Late

Perform adjustment according to thread trimming condition and thread to use.

## (4) Press "Set".

```
** MACHINE SETTING *
3. PRESET HLT→ [SET]
4. TRIM LENG → 1
5. TRIM TMNG → + 2
```



## (5) Completion

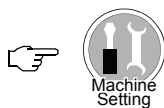
```
***** EMB START *****
TAJIMA12.DST ◆1
0/ 1027
01/15:123456789AB<D>
```

## 7. JUMP CONVERT

This setting converts consecutive jump stitches to frame stepping.

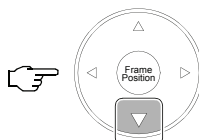
### (1) Switching to “MACHINE SETTING”

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>
```



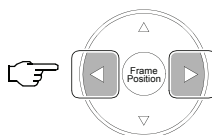
### (2) Switching of item to display

```
** MACHINE SETTING *
1. SCREEN  → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]
```



### (3) Selection of setting value

```
** MACHINE SETTING *
4. TRIM LENG → 1
5. TRIM TMNG → + 0
6. JUMP CONV → 3 ST
```



### (4) Press “Set”.

```
** MACHINE SETTING *
4. TRIM LENG → 1
5. TRIM TMNG → + 0
6. JUMP CONV → 5 ST
```



Setting value: 0, 1, 2, to 8, 9  
0: Not to convert

### (5) Completion

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>
```



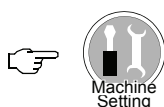
When the number of times of consecutive jump codes reaches a setting value, these jump codes will be converted to frame stepping.

## 8. AUTO JUMP

This setting makes a larger stitch than the setting value converted to a jump stitch automatically.

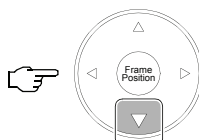
### (1) Switching to “MACHINE SETTING”

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>
```



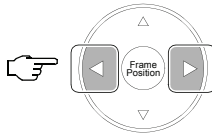
### (2) Switching of item to display

```
** MACHINE SETTING *
1. SCREEN  → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]
```



### (3) Selection of setting value

\*\* MACHINE SETTING \*  
6.JUMP CONV → 3 ST  
5.TRIM TMNG → + 0  
7. AUTO JUMP → OFF



Setting value: OFF, 4.0 to 9.9 (mm)  
OFF: not to convert



Keeping on pressing "Frame travel (Left/Right)" key will cause value to be changed quickly.

### (4) Press "Set".

\*\* MACHINE SETTING \*  
6.JUMP CONV → 3 ST  
5.TRIM TMNG → + 0  
7. AUTO JUMP → 5.0 mm



### (5) Completion

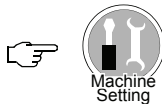
\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST 1  
0/ 1027   
01/15: 123456789AB<D>

## 9. A/S TIMING

This is a setting for timing when the embroidery frame starts to move.

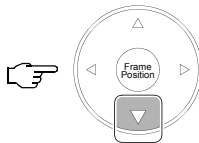
### (1) Switching to "MACHINE SETTING"

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST 1  
0/ 1027   
01/15: 123456789AB<D>



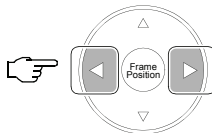
### (2) Switching of item to display

\*\* MACHINE SETTING \*  
1. SCREEN → ST  
2. THREAD SNS → 2  
3. PRESET HLT → [SET]



### (3) Selection of setting value

\*\* MACHINE SETTING \*  
6.JUMP CONV → 3 ST  
7.AUTO JUMP → OFF  
8. A/S TMNG → AUTO



Setting value: AUTO, 250°  
AUTO: automatic adjustment  
250°: Frame drive at the same timing

### (4) Press "Set".

\*\* MACHINE SETTING \*  
6.JUMP CONV → 3 ST  
7.AUTO JUMP → OFF  
8. A/S TMNG → OFF



**(5) Completion**

```

***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>

```

**10. THE NUMBER OF INCHING TIMES**

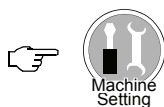
Set the number of inching times after thread trimming.

**(1) Switching to “MACHINE SETTING”**

```

***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>

```



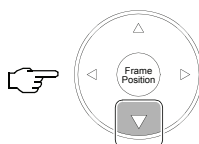
When you start the machine after stopping it by pressing “Stop” switch, the machine will not perform inching.

**(2) Switching of item to display**

```

** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]

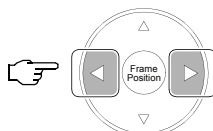
```

**(3) Selection of setting value**

```

** MACHINE SETTING *
7. AUTO JUMP → OFF
8. A/S TMNG → AUTO
9. INCHING → 2 ST

```



Setting value: 2, 3 to 8, 9

**(4) Press “Set”.**

```

** MACHINE SETTING *
7. AUTO JUMP → OFF
8. A/S TMNG → AUTO
9. INCHING → 5 ST

```

**(5) Completion**

```

***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>

```

**11. TIE STITCHING**

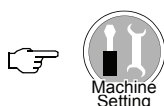
This is a setting for tie stitching at start of sewing/end of sewing.

**(1) Switching to “MACHINE SETTING”**

```

***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>

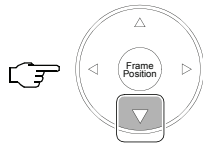
```



Tie stitching is reciprocation of stitches of 0.8 mm.

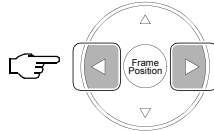
## (2) Switching of item to display

\*\* MACHINE SETTING \*  
1. SCREEN → ST  
2. THREAD SNS → 2  
3. PRESET HLT → [SET]



## (3) Selection of setting value

\*\* MACHINE SETTING \*  
8. A/S TMNG → AUTO  
9. INCHING → 2 ST  
A. TIE SET → So Eo



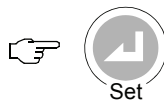
So/S-:

Eo/E-:

So: Tie stitching at start of sewing  
Eo: Tie stitching is performed at the end of sewing.  
S-, E-: Not to perform tie stitching

## (4) Press "Set".

\*\* MACHINE SETTING \*  
8. A/S TMNG → AUTO  
9. INCHING → 2 ST  
A. TIE SET → S- Eo



## (5) Completion

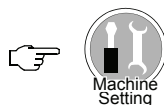
\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15: 123456789AB<D>

# 12. SATIN ADJUSTMENT

This setting corrects length of satin stitch.  
Correcting value will be added to both ends of stitch.

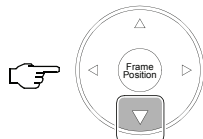
## (1) Switching to "MACHINE SETTING"

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15: 123456789AB<D>



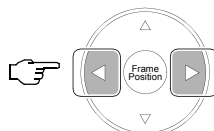
## (2) Switching of item to display

\*\* MACHINE SETTING \*  
1. SCREEN → ST  
2. THREAD SNS → 2  
3. PRESET HLT → [SET]



## (3) Selection of setting value

\*\* MACHINE SETTING \*  
9. INCHING → 2 ST  
A. TIE SET → So Eo  
B. SATIN ADJ → OFF



Setting value: -5, -4, -3, -2, -1, OFF,  
1, 2, 3, 4, 5  
OFF: not to perform satin adjustment  
-5 to -1: -0.5 to -0.1 mm  
1 to 5: 0.1 to 0.5 mm



(4) Press “Set”.

\*\* MACHINE SETTING \*  
9.INCHING → 2 ST  
A.TIE SET → So Eo  
B.SATIN ADJ → 1



(5) Completion

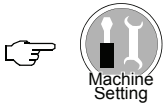
\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15: 123456789AB<D>

13. BORING

This is a setting for boring device.

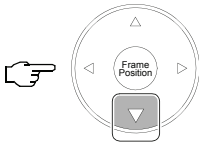
(1) Switching to “MACHINE SETTING”

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15: 123456789AB<D>



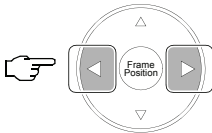
(2) Switching of item to display


\*\* MACHINE SETTING \*  
1.SCREEN → ST  
2.THREAD SNS→ 2  
3.PRESET HLT→ [SET]



(3) Selection of setting value

\*\* MACHINE SETTING \*  
A.TIE SET → So Eo  
B.SATIN ADJ→ OFF  
C.BORING → OFF



 OFF: not equipped  
1: equipped, without offset  
2: equipped, 12 mm offset

(4) Press “Set”.

\*\* MACHINE SETTING \*  
A.TIE SET → So Eo  
B.SATIN ADJ→ OFF  
C.BORING → 2



(5) Completion

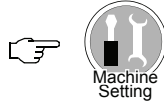
\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15: 123456789AB<D>

## 14. CORDING

This is a setting for cording device.

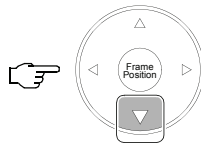
### (1) Switching to “MACHINE SETTING”

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123456789AB<D>
```



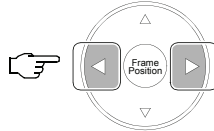
### (2) Switching of item to display

```
** MACHINE SETTING *
1.SCREEN    → ST
2.THREAD SNS→ 2
3.PRESET HLT → [SET]
```



### (3) Selection of setting value

```
** MACHINE SETTING *
B.SATIN ADJ→OFF
C.BORING    →OFF
D.CORDING   →OFF
```



### (4) Press “Set”.

```
** MACHINE SETTING *
B.SATIN ADJ→OFF
C.BORING    →OFF
D.CORDING   →ON
```



### (5) Completion

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123456789AB<D>
```



OFF: not equipped

ON: equipped



When the last needle is not selected,  
it is not possible to perform setting.

## 15. SEQUIN

This is a setting for sequin device.



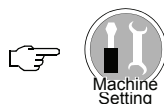
### CAUTION



When performing this operation, do not make your hands or face access to sequin device. Moving device could injure you.

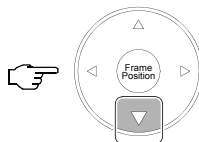
### (1) Switching to “MACHINE SETTING”

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15:123456789AB<D>
```



**(2) Switching of item to display**

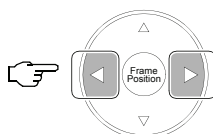
\*\* MACHINE SETTING \*\*  
 1. SCREEN → ST  
 2. THREAD SNS → 2  
 3. PRESET HLT → [SET]

**(3) Press "Set".**

\*\* MACHINE SETTING \*\*  
 C.BORING → OFF  
 D.CORDING → OFF  
 E. SEQUIN → [SET]

**(4) Up/down operation**

\*\*\*\*\* SEQUIN \*\*\*\*\*  
 UP/DOWN → U < > D  
 SEQUIN L → 6.0mm  
 SEQUIN R → OFF



Raise/lower sequin device of selecting needle bar manually.



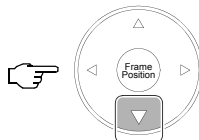
U: to raise the device



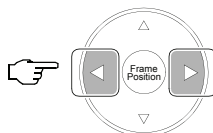
D: to lower the device

**(5) Switching of setting item**

\*\*\*\*\* SEQUIN \*\*\*\*\*  
 UP/DOWN → U < > D  
 SEQUIN L → 6.0mm  
 SEQUIN R → OFF

**(6) Set a feed amount of sequin.**

\*\*\*\*\* SEQUIN \*\*\*\*\*  
 UP/DOWN → U < > D  
 SEQUIN L → 6.0mm  
 SEQUIN R → OFF



The value added by 0.7 mm to the diameter of sequin chip to use is a rough standard of feed amount. In case of 3 mm sequin, set to 4.0 mm.



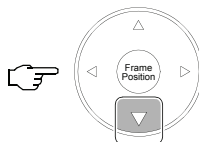
Setting value: OFF, 4.0 to 9.9 mm



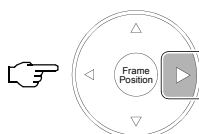
When you do not use sequin device, set to "OFF".

**(7) Switching of setting item**

\*\*\*\*\* SEQUIN \*\*\*\*\*  
 UP/DOWN → U < > D  
 SEQUIN L → 6.7mm  
 SEQUIN R → OFF


**(8) Chip feed operation**

\*\*\*\*\* SEQUIN \*\*\*\*\*  
 SEQUIN L → 6.7mm  
 SEQUIN R → OFF  
 MANUAL → Fn < > F



Pressing it will feed one piece of sequin chip.

(9) Completion of working

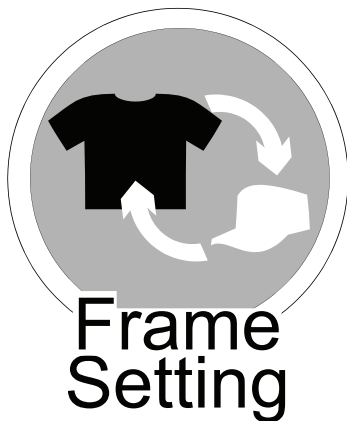
\*\*\*\*\* SEQUIN \*\*\*\*\*  
SEQUIN L → 6.7mm  
SEQUIN R → OFF  
MANUAL  Fn< >F



To complete working, press "Escape" key.

## Chapter 8 Frame setting

1. FRAME SPEED .....	P.64
2. OFFSET .....	P.64
3. ORIGIN RETURN .....	P.65
4. FRAME MODE .....	P.66
5. ORIGIN SEARCH .....	P.67
6. TRACE .....	P.68

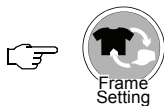


## 1. FRAME SPEED

This setting sets speed when the frame moves.

### (1) Switching to “FRAME SETTING”

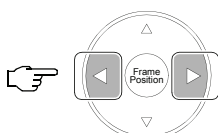
```
***** EMB START *****
TAJIMA12.DST  ◆1
0/ 1027
01/15:123456789AB<D>
```



Corresponding movement  
Manual frame travel, origin search,  
origin return, trace, offset

### (2) Select setting value.

```
*** FRAME SETTING **
1. MANUAL SPD→1
2. OFFSET      →MANUAL
3. ORIGIN RTN→MANUAL
```



Setting value: 1, 2, 3

1	2	3
Low speed	Middle speed	High speed

### (3) Press “Set”.

```
*** FRAME SETTING **
1. MANUAL SPD→3
2. OFFSET      →MANUAL
3. ORIGIN RTN→MANUAL
```



### (4) Completion

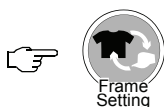
```
***** EMB START *****
TAJIMA12.DST  ◆1
0/ 1027
01/15:123456789AB<D>
```

## 2. OFFSET

This setting makes the frame move to an offset position automatically/  
manually.

### (1) Switching to “FRAME SETTING”

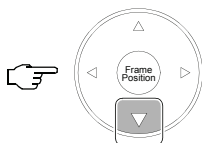
```
***** EMB START *****
TAJIMA12.DST  ◆1
0/ 1027
01/15:123456789AB<D>
```



To set a position of offset, set at  
manual operation.  
(Refer to p.72)

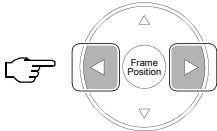
### (2) Select OFFSET.

```
*** FRAME SETTING **
1. MANUAL SPD→1
2. OFFSET      →MANUAL
3. ORIGIN RTN→MANUAL
```



(3) Select setting value.

\*\*\* FRAME SETTING \*\*  
1.MANUAL SPD→1  
2. OFFSET →MANUAL  
3.ORIGIN RTN→MANUAL



Setting value: auto/manual

AUTO	The frame will move to an offset position automatically at temporary stop or end of embroidery.
MANUAL	Not to perform frame travel automatically

(4) Press “Set”.

\*\*\* FRAME SETTING \*\*  
1.MANUAL SPD→1  
2. OFFSET →AUTO  
3.ORIGIN RTN →MANUAL



(5) Completion

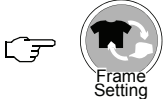
\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15: 123456789AB<D>

3. ORIGIN RETURN

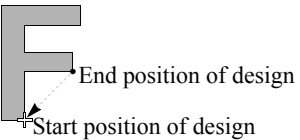
This setting makes the frame move to a start position of design manually/ automatically at end of embroidery.

(1) Switching to “FRAME SETTING”

\*\*\*\*\* EMB START \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027  
01/15: 123456789AB<D>

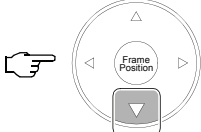


Origin return



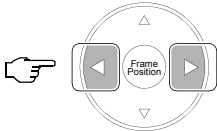
(2) Select origin return.

\*\*\* FRAME SETTING \*\*  
1. MANUAL SPD→1  
2. OFFSET →MANUAL  
3.ORIGIN RTN→MANUAL



(3) Select setting value.

\*\*\* FRAME SETTING \*\*  
1.MANUAL SPD→1  
2.OFFSET →MANUAL  
3. ORIGIN RTN→MANUAL



Setting value: auto/manual

AUTO	The frame will move to a start position of design after end of embroidery.
MANUAL	The machine will stop at an end position of embroidery. It is possible to perform frame back.

(4) Press “Set”.

\*\*\* FRAME SETTING \*\*  
1.MANUAL SPD→1  
2.OFFSET →MANUAL  
3. ORIGIN RTN→AUTO



## (5) Completion

```
***** EMB START *****
TAJIMA12.DST 1
0/ 1027
01/15:123456789AB<D>
```



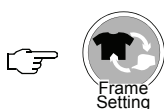
In case of manual setting  
When performing the next embroidery after the end of the embroidery, perform origin return manually.  
(Refer to p.70)

## 4. FRAME MODE

Set the embroidery frame to flat (tubular goods frame) frame/cap frame/cylindrical frame/border frame/X-wide border frame.

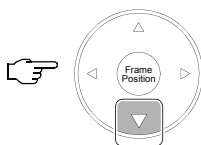
### (1) Switching to “FRAME SETTING”

```
***** EMB START *****
TAJIMA12.DST 1
0/ 1027
01/15:123456789AB<D>
```



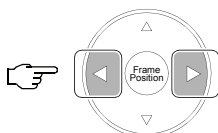
### (2) Switching of item to display

```
*** FRAME SETTING **
1. MANUAL SPD→1
2. OFFSET →MANUAL
3. ORIGIN RTN→MANUAL
```



### (3) Select frame type.

```
*** FRAME SETTING **
2. OFFSET →MANUAL
3. ORIGIN RTN →MANUAL
4. FRAME MODE→FLAT
```



### (4) Press “Set”.

```
*** FRAME SETTING **
2. OFFSET →MANUAL
3. ORIGIN RTN →MANUAL
4. FRAME MODE→CAP
```



### (5) Press “Set” to perform origin search

```
*** TEJT2-C series ***
FRAME MODE→CAP
INITIAL →*ON <D>
```



Setting value

FLAT	Tubular goods frame, Auto clamp frame
CAP	Cap frame
CYLNDR	Cylindrical frame
BORDER	Border frame
X-WIDE	X-wide border frame



Pressing “Set” key will cause start screen to appear.



When you change frame type, the position of origin will change. Press “Set” key to perform origin search.



**(6) Completion**

```

**** EMB START ****
TAJIMA12.DST 1
0/ 1027
01/15: 123456789AB<D>

```

**5. ORIGIN SEARCH**

Switch to origin search display (on/off) of start screen.

**(1) Switching to “FRAME SETTING”**

```

**** EMB START ****
TAJIMA12.DST 1
0/ 1027
01/15: 123456789AB<D>

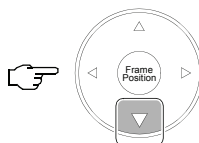
```

**(2) Switching of item to display**

```

*** FRAME SETTING **
1. MANUAL SPD→1
2. OFFSET →MANUAL
3. ORIGIN RTN→MANUAL

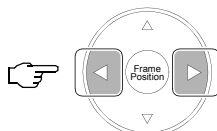
```

**(3) Selection of setting value**

```

*** FRAME SETTING **
3. ORIGIN RTN →MANUAL
4. FRAME MODE→CAP
5. INITIAL →OFF

```

**(4) Press “Set”.**

```

*** FRAME SETTING **
3. ORIGIN RTN →MANUAL
4. FRAME MODE→CAP
5. INITIAL →ON

```

**(5) Completion**

```

*** TEJT2-C series ***
FRAME MODE 2 CAP
INITIAL →ON <D>

```



Embroidery space of the frame:

Frame Type	X-axis	Y-axis
Tubular goods frame	500mm	360mm
A. Clamp-T	40-150mm	80-180mm
A. Clamp-B	280mm	210mm
Cap frame	360mm	78mm
Cylindrical frame	130mm	180mm
Border frame	500mm	353mm
X-wide border frame	1200mm	353mm



Origin search searches the center of the embroidery frame.



Setting value: on (recommended)/off



Changing origin search to be set “ON” and pressing “Set” key will cause start screen to appear.



Pressing “Set” key at start screen will perform origin search and embroidery start screen will appear.



When origin search is necessary

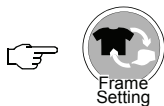
1. When frame type is changed
2. When the power is shut off in the middle of embroidery
3. When each software is installed
4. When resetting emergency stop

## 6. TRACE

This is a setting for frame travel mode when the machine performs tracing.

### (1) Switching to “FRAME SETTING”

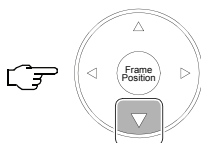
```
***** EMB START *****
TAJIMA12.DST  1
0/ 1027
01/15:123456789AB<D>
```



The frame will move along with a square/contour in an embroidery space of design before embroidering. It is possible to check if fabric, frame, or embroidery space is correct.

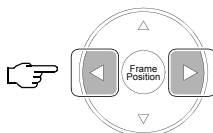
### (2) Switching of item to display

```
*** FRAME SETTING **
1. MANUAL SPD→1
2. OFFSET →MANUAL
3. ORIGIN RTN→MANUAL
```



### (3) Selection of setting value

```
*** FRAME SETTING **
4. FRAME MODE→CAP
5. INITIALIZE →OFF
5. TRACE →SQUARE
```

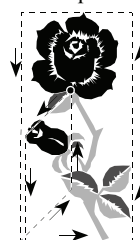


### (4) Press “Set”.

```
*** FRAME SETTING **
4. FRAME MODE→CAP
5. INITIALIZE →OFF
5. TRACE →CONTOUR
```



Square



Contour

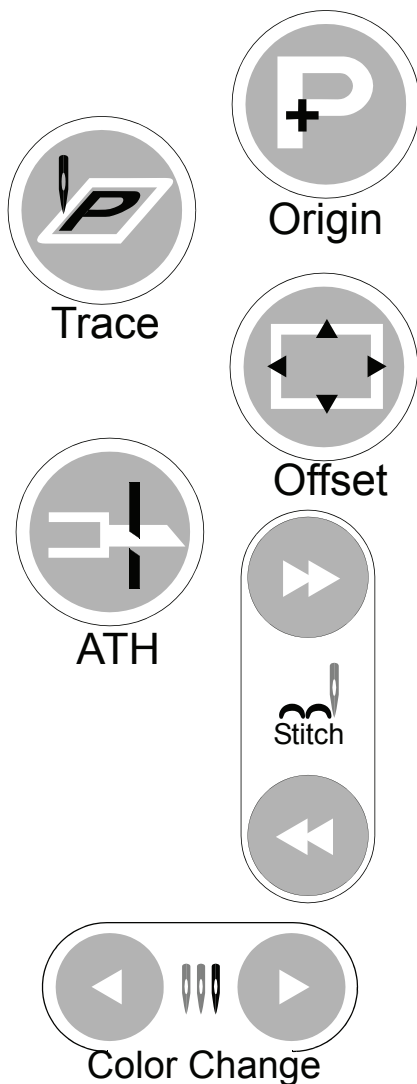


### (5) Completion

```
***** EMB START *****
TAJIMA12.DST  1
0/ 1027
01/15:123456789AB<D>
```

## Chapter 9 Manual operation


1. MANUAL COLOR CHANGE .....	P.70
2. MANUAL ORIGIN RETURN .....	P.71
3. TRACE .....	P.71
4. OFFSET (SETTING FOR POSITION) .....	P.72
5. OFFSET (CHANGE OF POSITION) .....	P.73
6. OFFSET (FRAME TRAVEL) .....	P.74
7. MANUAL ATH .....	P.75
8. FRAME BACK/FORWARD (FEED UNIT) .....	P.75
9. FRAME BACK/FORWARD (FEED BY N-STITCHES) ..	P.76
10. FRAME FORWARD .....	P.77
11. FRAME BACK .....	P.77



## 1. MANUAL COLOR CHANGE

The machine will perform color change manually.

### CAUTION

 When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

#### (1) Select needle bar No. (Example: changing to 6th needle)

a. When color change setting is "AUTO"

```
***** EMB START *****
BELL.TBF      ▲1
              0/2451 ■
01/04: B573   <D>
```



Pressing "Color change (right/left)" key will switch to "(2) Setting" screen. Select NO.6 (6th needle).

b. When color change setting is "MANUAL"

```
***** EMB START *****
BELL.TBF      ▲1
              0/2451 ■
01/04: NO.11
```



Pressing "Color change (right/left)" key will switch to "(2) Setting" screen. Select N.6 (6th needle).

#### (2) Press "Set".

```
***** EMB START *****
BELL.TBF      ▲1
              0/2451 ■
01/04: NO.6* →[SET]
```



Pressing "Set" key will change to the 6th needle.

#### (3) Completion

a. When color change setting is "AUTO"

```
***** EMB START *****
BELL.TBF      ▲1
              0/2451 ■
01/04: B573   <6>
```



In the left screen of automatic color change setting, pressing "START" switch will cause the machine to start automatically to start embroidery after changing 6th needle to 11th (B) needle (color change).


b. When color change setting is "MANUAL"

```
***** EMB START *****
BELL.TBF      ▲1
              0/2451 ■
01/04: NO.6
```

## 2. MANUAL ORIGIN RETURN

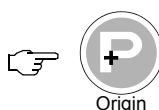
Return the embroidery frame to the start position of design.

### CAUTION

 When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

#### (1) Select origin return.

```
***** EMB PAUSE *****
TAJIMA12.DST  ◆1
                58/ 1027
01/15: 123456789AB<D>
```



#### (2) Confirm.

```
***** EMB PAUSE *****
CANCEL EMB?
[Y=SET,N=ESC]
```



#### (3) Completion

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>
```



When you perform origin return in the middle of embroidery, it will become impossible to continue embroidery.




Pressing "Set" key will cause the frame to move to a start position of design.

## 3. TRACE

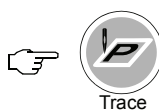
This operation makes the embroidery frame move along embroidery space of design data.

### CAUTION

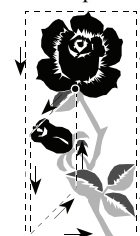
 When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

#### (1) Select TRACE.

```
***** EMB START *****
TAJIMA12.DST  ◆1
                0/ 1027
01/15: 123456789AB<D>
```



Square



Contour



Regarding how to set trace, refer to frame setting. (Refer to p.68)



It is not possible to perform tracing in the middle of embroidery.



Pressing "TRACE" key will cause the trace start position to become a start position of design.

(2) During trace

```
***** TRACE *****
TAJIMA12.DST  ◆1
X Size→ 54.0 mm
Y Size→ 10.7 mm
```



Embroidery size of design will be displayed during trace.

## 4. OFFSET (SETTING FOR POSITION)

Set an offset position.



### CAUTION



When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

(1) Select OFFSET.

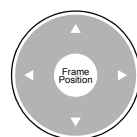
```
***** EMB START *****
TAJIMA12.DST  ◆1
              0/ 1027
01/15: 123456789AB<D>
```



When changing frame type, the offset position will return to (0, 0).

(2) Setting for an offset position

```
***** EMB START *****
              OFFSET
Dx → + 0.0 (+ 0.0)
Dy → + 0.0 (+ 0.0)
```



Set an offset position by using "Frame travel" key. Moving position of the frame will be displayed by coordinates.

(3) Press "Set".

```
***** EMB START *****
              OFFSET
Dx → + 27.1 (+ 0.0)
Dy → - 56.4 (+ 0.0)
```



Pressing "Set" key will cause the set position to be registered to the machine and it is possible to use the set position for all design data.

(4) Completion

```
***** EMB START *****
              OFFSET
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```



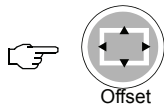
When you set offset of frame setting to "AUTO", the frame will move to the offset position at temporary stop or end of embroidery and the machine will stop. At this moment, the left screen will appear. The screen shows the machine is stopping at the offset position.

**(5) To return the frame to the original position**

```

***** EMB START *****
                        OFFSET
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)

```



```

***** EMB START *****
TAJIMA12.DST ◆1
                0/ 1027 ■
01/15: 123456789AB<D>

```



Pressing "OFFSET" key will cause the frame to return to the position before frame travel.

**5. OFFSET (CHANGE OF POSITION)**

Change the offset position

**CAUTION**

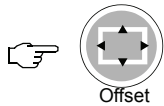
When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

**(1) Select OFFSET.**

```

***** EMB START *****
TAJIMA12.DST ◆1
                0/ 1027 ■
01/15: 123456789AB<D>

```



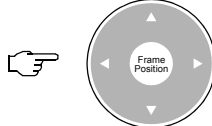
When changing frame type, the offset position will return to (0, 0).

**(2) Change the offset position.**

```

***** EMB START *****
                        OFFSET
Dx → + 27.1 (- 27.1)
Dy → - 56.4 (+ 56.4)

```



The frame will move to the registered offset position. Set a new position by using "Frame travel" key.

**(3) Press "Set".**

```

***** EMB START *****
                        OFFSET
Dx → + 60.9 (- 27.1)
Dy → + 14.1 (+ 56.4)

```



Pressing "Set" key will register the moved position.

**(4) Completion**

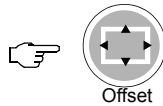
```

***** EMB START *****
                        OFFSET
Dx → + 60.9 (- 60.9)
Dy → + 14.1 (+ 14.1)

```

(5) To return the frame to the original position

```
***** EMB START *****
                        OFFSET
Dx → + 60.9 (- 60.9)
Dy → + 14.1 (+ 14.1)
```



```
***** EMB START *****
TAJIMA12.DST 1
              0/ 1027
01/15:123456789AB<D>
```



Pressing "OFFSET" key will cause the frame to return to the position before frame travel.

## 6. OFFSET (FRAME TRAVEL)

The frame will move to the offset position/the current position.



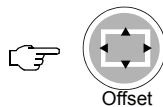
### CAUTION



When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

(1) Move the frame to the offset position.

```
***** EMB PAUSE *****
TAJIMA12.DST 1
              75/ 1027
01/15:123456789AB<D>
```



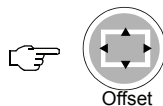
```
***** EMB START *****
                        OFFSET
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```



Pressing "OFFSET" key will cause the frame to move to the registered offset position.

(2) To return the frame to the original position

```
***** EMB START *****
                        OFFSET
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```



```
***** EMB PAUSE *****
TAJIMA12.DST 1
              75/ 1027
01/15:123456789AB<D>
```




Pressing "OFFSET" key will cause the frame to return to the position before frame travel. Pressing "START" switch will cause the frame to return the original position and the machine will start embroidery.



## 7. MANUAL ATH

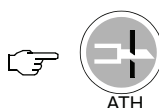
The machine will perform thread trimming.

### CAUTION

 When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

#### (1) Select thread trimming (ATH).

\*\*\*\*\* EMB PAUSE \*\*\*\*\*  
TAJIMA12.DST ◆1  
66/ 1027 ■  
01/15: 123456789AB<D>



#### (2) Press “Set” to execute

\*\*MANUAL TRIMMING\*  
TRIMMING OK?  
[Y=SET,N=ESC]




Pressing “Set” key (selecting thread trimming) will cause the main shaft to rotate. When tie stitching is set, the machine will perform embroidery by one stitch and perform thread trimming. (Refer to p.57)

## 8. FRAME BACK/FORWARD (FEED UNIT)

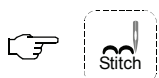
The machine will perform frame back/forward by the set feed unit.

### CAUTION

 When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

#### (1) Select mode (color change unit)

\*\*\*\*\* EMB PAUSE \*\*\*\*\*  
TAJIMA12.DST ◆1  
0/ 1027 ■  
01/15: 123456789AB<D>



Setting value: 1, 10, 100, C, n-th stitch  
1: 1-stitch unit  
10: 10-stitch unit  
100: 100-stitch unit  
C: color change unit  
n: stitch position input by numerical key



Keeping on pressing “FRAME BACK/FORWARD” key for one second or more will cause the frame to move to a color change position even if you release the key.

#### (2) Frame forward by color change unit

\*\*\*\*\* EMB PAUSE \*\*\*\*\*  
TAJIMA12.DST ◆C  
0/ 1027 ■  
01/15: 123456789AB<D>



Pressing “FRAME FORWARD” key will cause the frame to move to a stitch position of color change. Every pressing will perform frame forward to the next color change position.

### (3) Completion

```
***** EMB PAUSE *****
TAJIMA12.DST  ◆C
      75/ 1027
01/15:123456789AB<D>
```

## 9. FRAME BACK/FORWARD (FEED BY N-STITCHES)

The machine will perform frame back/forward to the inputted stitch position.



### CAUTION



When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.

### (1) Select mode (n-th stitch)

```
***** EMB PAUSE *****
TAJIMA12.DST  ◆C
      75/ 1027
01/15:123456789AB<D>
```



Setting value: 1, 10, 100, C, n-th stitch

1: 1-stitch unit

10: 10-stitch unit

100: 100-stitch unit

C: color change unit

n: stitch position input by numerical key

### (2) Input the number of stitches.

```
***** EMB PAUSE *****
TAJIMA12.DST  ◆n ST
      75/ 1027
01/15:123456789AB<D>
```



When the number of inputted stitches is larger than the number of current stitches, the machine will perform frame forward. If it is smaller, the machine will perform frame back.

### (3) Press “Set” to move the frame to stitch position.

```
*** FORWARD/BACK ***
TAJIMA12.DST  ◆n ST
      * 356/ 1027
01/15:123456789AB<D>
```





Pressing “Set” key will perform frame forward (frame travel) to the inputted stitch position.

### (4) Completion

```
***** EMB PAUSE *****
TAJIMA12.DST  ◆n ST
      356/ 1027
01/15:123456789AB<D>
```

## 10. FRAME FORWARD

The machine will perform frame forward.

 <b>CAUTION</b>
<p> When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.</p>

### (1) Select FORWARD.

```

**** EMB START ****
TAJIMA12.DST  ◆1
                0/ 1027 ■
01/15: 123456789AB<D>
  
```



When you set 1-stitch unit, pressing “Frame forward” key once will cause the machine to perform frame forward by 1 stitch.

### (2) Keep on pressing “FRAME FORWARD”.

```

***** FORWARD *****
TAJIMA12.DST  ◆1
                2/ 1027 ■
01/15: 123456789AB<D>
  
```



Keeping on pressing “FRAME FORWARD” key for one second or more will cause the frame to move to a color change position even if you release the key. To stop the machine, press “STOP” switch.



### (3) The machine will stop at a color change position.

```

**** EMB PAUSE ****
TAJIMA12.DST  ◆1
                75/ 1027 ■
01/15: 123456789AB<D>
  
```

## 11. FRAME BACK

The machine will perform frame back.

 <b>CAUTION</b>
<p> When performing this operation, do not put your hands under needle or on the machine table. Moving needle or frame could injure you.</p>

### (1) Select FRAME BACK.

```

**** EMB PAUSE ****
TAJIMA12.DST  ◆1
                319/ 1027 ■
01/15: 123456789AB<D>
  
```



When you set 1-stitch unit, pressing “Frame back” key once will cause the machine to perform frame back by 1 stitch.

### (2) Keep on pressing “FRAME BACK”.

```

***** BACK *****
TAJIMA12.DST  ◆1
                317/ 1027 ■
01/15: 123456789AB<D>
  
```



Keeping on pressing “FRAME BACK” key for one second or more will cause the frame to move to a color change position even if you release the key. To stop the machine, press “STOP” switch.

(3) The machine will stop at a color change position.

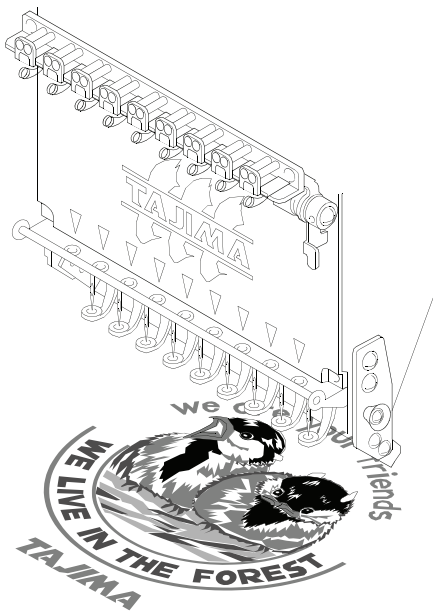
```
***** EMB PAUSE *****  
TAJIMA12.DST ◆1  
280/ 1027 ■  
01/15:123456789AB<D>
```



Frame back will stop at a position of color change.

## Chapter 10 Outline of function


1. ROTATION .....	P.80
2. REVERSE (MIRROR IMAGE REVERSION) .....	P.80
3. SIZE .....	P.81
4. REPEAT .....	P.81
5. OFFSET .....	P.82
6. SATIN ADJUSTMENT .....	P.84
7. TRACE .....	P.84



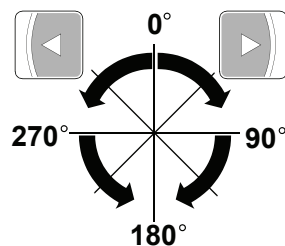
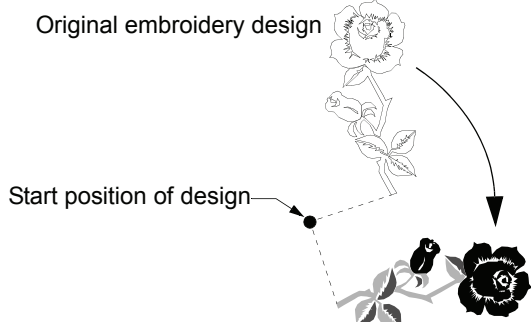
## 1. ROTATION

This function rotates design registered in the memory to embroider.

This function makes a start position of design as a center and rotates the design.

 Unit of rotation: 45°


[Example: rotation by 90°]



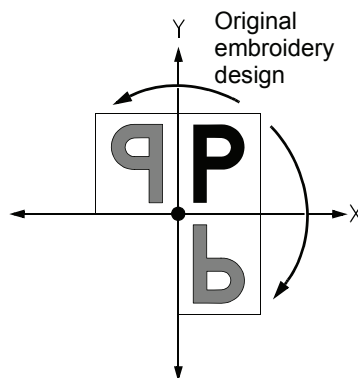
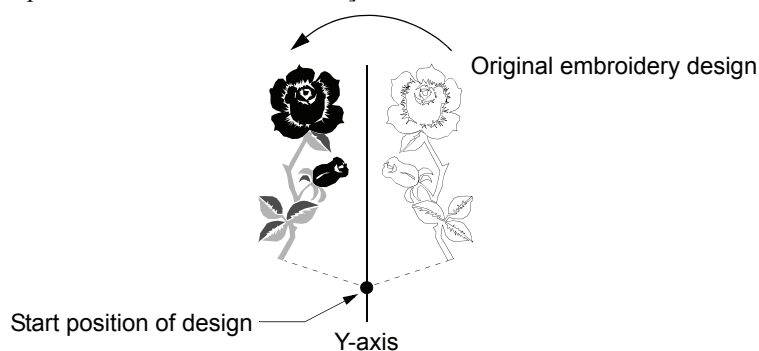
## 2. REVERSE (MIRROR IMAGE REVERSION)

This function reverses design registered in the memory to embroider.

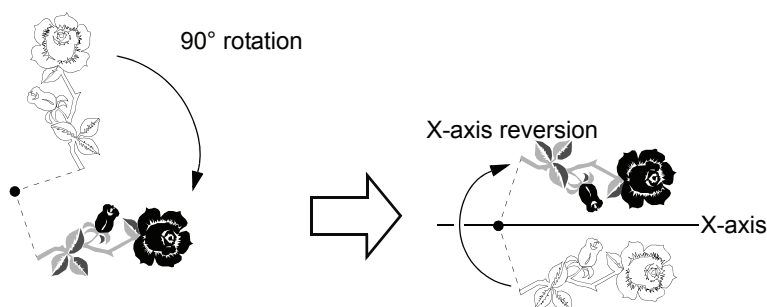
This function makes a start position of design as a center line and performs X/Y-axis reversion.

 Reversing axis: X (based on X-axis)/Y (based on Y-axis)

[Example: reversion based on Y-axis]




[Example: rotation by 90° and reversion based on X-axis]



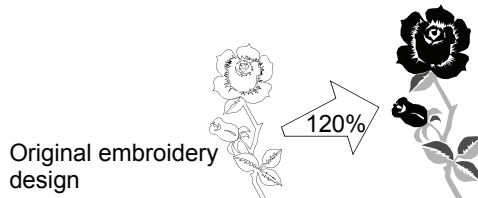
When both rotation and mirror are set, priority order will become rotation => reversion.

### 3. SIZE

This function enlarges/reduces design registered in the memory to embroider. It is possible to change scale ratio within a range of 80 to 120%.

 Unit of scale ratio: 1%

[Example: 120%]




Even if size of design data changes, the start position of design will not change.

### 4. REPEAT

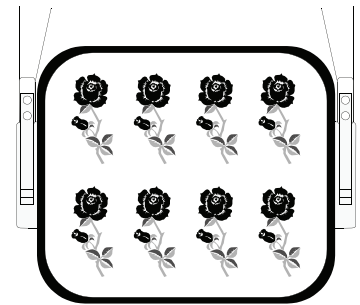
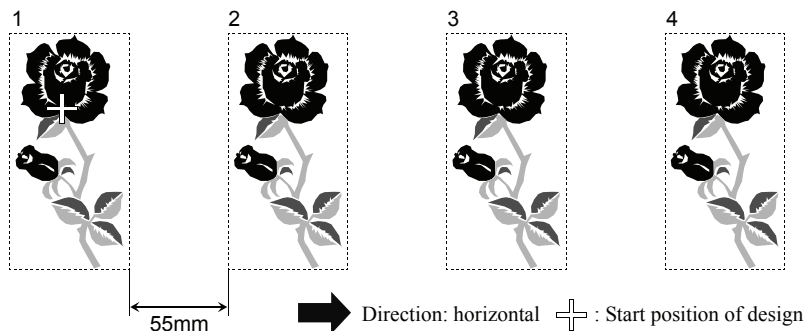
This function makes the machine embroider design registered in the memory repeatedly.


Set embroidery direction, the number of repeats and/or space (interval) of design.

 It is possible to rotate and/or reverse (mirror) the design repeatedly arranged.

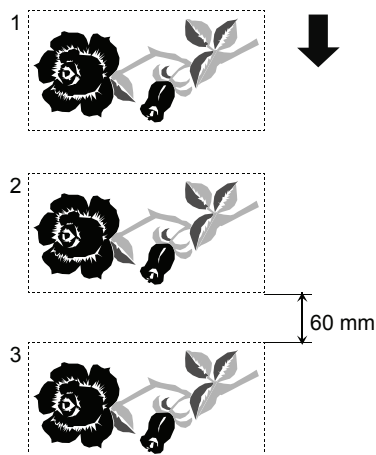
Order of priority: repeat => rotation => reversion

[Example direction: horizontal, times: 4, space: 55 mm]

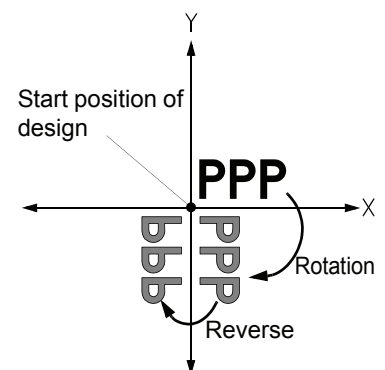



 Setting "Repeat" and execution of trace will enable to check the whole embroidery space. Adjust start position, the number of repeats, space etc. so that embroidery space does not come off from the frame..

[Example direction: horizontal, times: 3, space: 60 mm, rotation: 90°, mirror: Y]



Direction: horizontal (Even if you set horizontal direction, the machine will actually perform embroidery in vertical direction because the design is rotated by 90°.)



 If reversion is based on X-axis in repeat setting shown above, order of embroidery will become reverse.

## 5. OFFSET

This function makes the frame move to the position set by offset and makes it return to the original position after working.

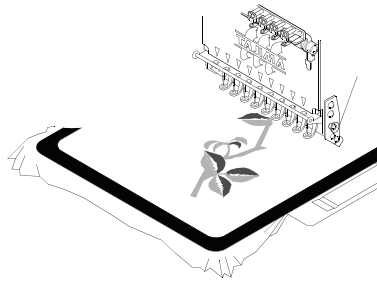
Offset includes manual/automatic setting (frame setting).

### 5-1. Manual offset

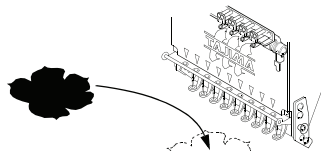
Pressing “OFFSET” key at stop of the machine will cause the frame to move to the offset position. Pressing “OFFSET” key once more will cause the frame to return to the original position.

[Example: Placing applique]

#### (1) Stop the machine.



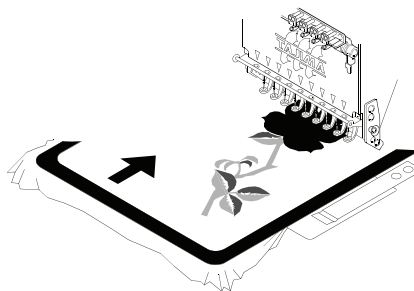
#### (2) Move the frame to the offset position.



#### (3) Place applique.



#### (4) Press “OFFSET” key to return the frame to the original position. (Pressing “START” switch will cause the frame to return to the original position and the machine will start embroidery again.)




Offset position



Stop position



 To place applique etc., it will become convenient if you set temporary stop at color change. (Refer to p.42)

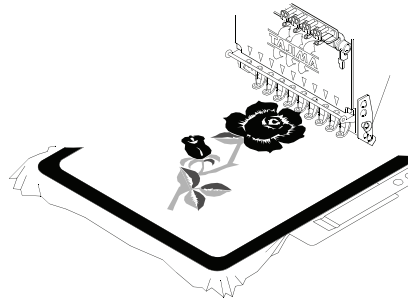


## 5-2. Automatic offset

When you set an offset position and set offset of frame setting to AUTO, the frame will move to the offset position and the machine will stop.

[Example: Exchange of frame]

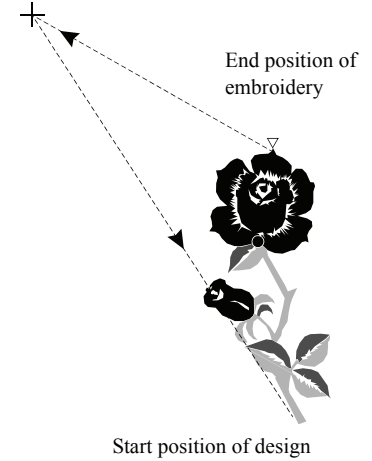
### (1) Completion of embroidery



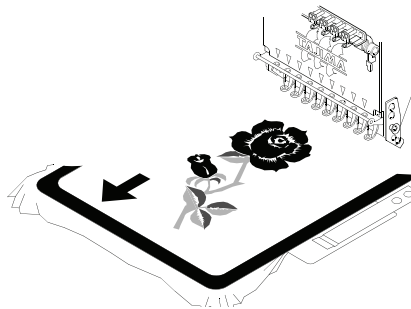
Offset position

End position of embroidery

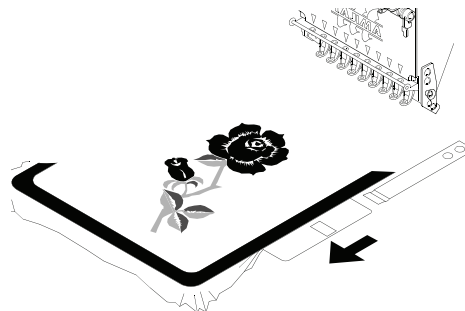
Start position of design



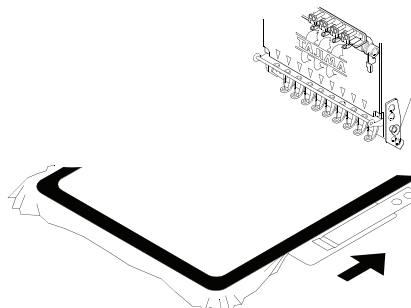
### (2) Move the frame to the offset position.



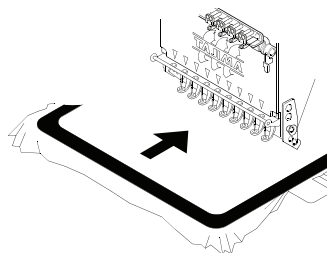
### (3) Change the frame.




### (4) New frame (changing of cloth)



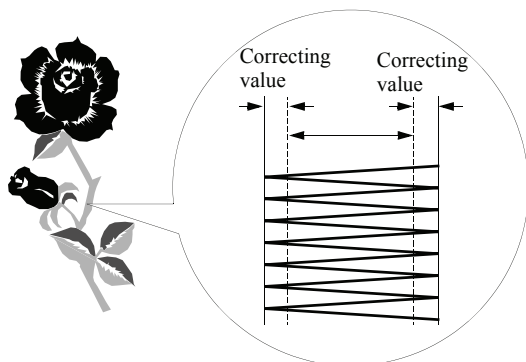
### (5) Pressing "START" switch will cause the frame to move to a start position of design and the machine will start embroidery.



 To embroider the same design, set "ORIGIN RETURN" of frame setting to "AUTO" to perform embroidery from the same start position. (Refer to p.65)

## 6. SATIN ADJUSTMENT

This function expands satin stitch length.



To expand satin stitch length, set satin adjustment of machine setting.

Setting value: OFF, 1 to 5



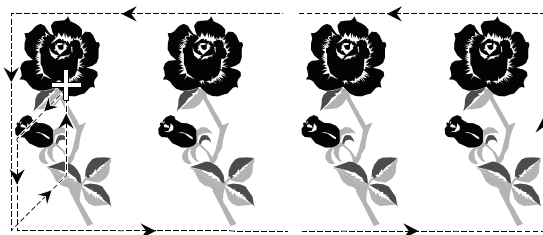
Although stitch of 1.5 mm or more will be corrected by satin adjustment, correcting value for stitch of less than 1.5 mm will become smaller. By switching the DIP switch (DSW2) of the operation panel, it is possible to correct stitch of 0.6 mm or more by satin adjustment. (Refer to p.12)

## 7. TRACE

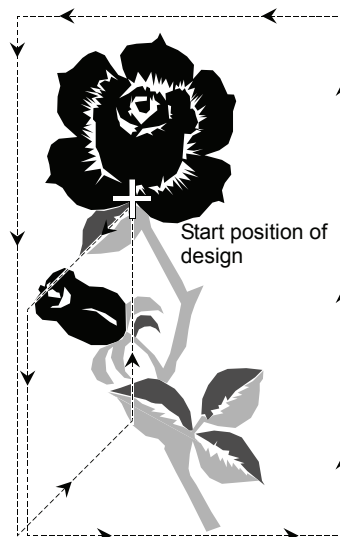
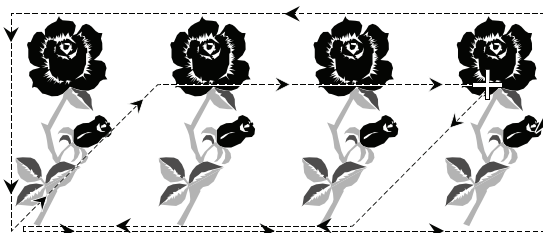
This function makes the frame move along a square or contour of embroidery space of design that is stored in the memory.

When you trace a set design, the frame will move from a start position of design to a left front corner of design, and it will return to a start position of design through four corners or contour.

When repeat is set, the machine will trace the whole embroidery space.



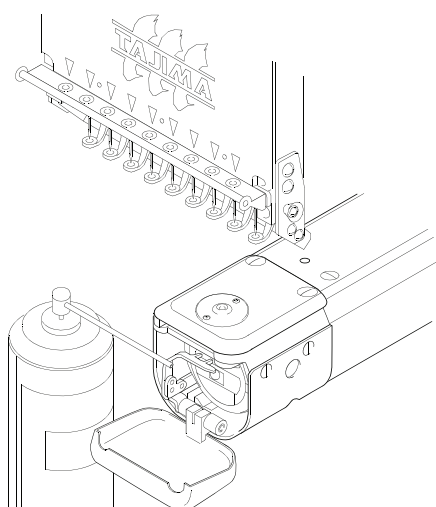
If mirror: Y is set to the repeat shown above, the machine will perform trace as shown below.



Pressing "TRACE" key will cause the trace start position to become a start position of design.

# Chapter 11 Troubleshooting and maintenance

- 1. WHEN THE MACHINE STOPS DURING OPERATION ..... P.86
- 2. WHEN TROUBLE OCCURS ..... P.88
- 3. DAILY MAINTENANCE ..... P.89



## 1. WHEN THE MACHINE STOPS DURING OPERATION

Stop factors of the machine include stop due to occurrence of error and stop due to usual stop factor. When the machine stopped during operation and the screen displayed a code No., cope with the situation in concord with the code chart below.

### 1-1. Occurrence of error and resetting

To reset the error display, follow the procedure below.

(1) Check the contents of error.

(2) Take proper action. In addition, if a code number of 300 series is displayed, contact your local distributor.

(3) Press "STOP" switch to cancel.

\*\*\*\*\* EMB PAUSE \*\*\*\*

THREAD BREAK  
(291)


An example of stop caused by occurrence of error

Code No.	Stop Factor	Corrective Action
211	The main shaft has stopped deviating from the fixed position	Adjust main shaft stop position to the fixed position. (Refer to p.87)
225	Embroidery space was exceeded.	Move the frame manually so that the design fits in the embroidery space.
281	The target needle position is not detected even after 15 seconds after start of color change.	<ul style="list-style-type: none"> <li>Adjust the needle position. (Refer to p.87)</li> <li>Check or replace the potentiometer (needle position sensor).</li> <li>Correct mis-input of needle position.</li> </ul>
291	Thread breakage is detected.	Check upper thread/under thread.
293	Preset halt by the number of specified stitches.	Change under thread.
2B1	Network does not work normally.	Check connecting status of cable, setting status of device such as personal computer.
2BA	Input of design data exceeded the memory capacity.	<ul style="list-style-type: none"> <li>Press "Escape" key to cancel data input.</li> <li>Delete unnecessary design data, and then input design data again.</li> <li>Press "Set" key to set data without inputting data to make embroidery possible.</li> <li>When the power is shut down in the middle of embroidery, the data will be lost.</li> </ul>
2CF	Stop by emergency stop switch	Release the lock of the emergency stop switch.
2E2	Air pressure has become larger than the regulation.	Check the air compressor. Check the origin of air supply.
2FC	Abnormal temperature in the machine	Check if the room temperature is too high. Check the cooling fan.
316	A main shaft motor error signal is detected.	Replace the power card, main shaft motor.
322	An X-axis motor error signal is detected. Breakage of X-axis motor harness is detected.	Replace the power card, X-axis motor. Turn OFF the power and check connecting condition of the motor harness.
323	A Y-axis motor error signal is detected. Breakage of Y-axis motor harness is detected.	Replace the power card, Y-axis motor. Turn OFF the power and check connecting condition of the motor harness.
3A6	Bad retracting position of ATH knife	Check the position of ATH movable knife.
3B5	Communication error in the controller	Turn ON the power again.
3B6	Communication error with the external device	Check the connecting cable, external device. Input IP address manually.
3D5	RAM memory error	Install the operation program again. Replace CONSOLE 1 card.
B01	Format error of the floppy disk	Initialize the floppy disk. Replace with a new formatted floppy disk.
B04	A floppy disk is not inserted.	Insert a floppy disk.
BC1	No design is registered in the external device to which a USB memory, floppy disk or bar code reader.	Insert the USB memory, floppy disk in which design data is registered. Select other design in the external device.

BC3	The disk driver has an abnormality.	Replace the disk driver.
	Sector(s) of the floppy disk are damaged.	<ul style="list-style-type: none"> <li>• Initialize the floppy disk.</li> <li>• Replace with a new formatted floppy disk.</li> </ul>
	It is not possible to read a USB memory, floppy disk and/or bar code.	

## 1-2. Maintenance stop

Maintenance stop is a stop to perform maintenance. It is not a stop by error.

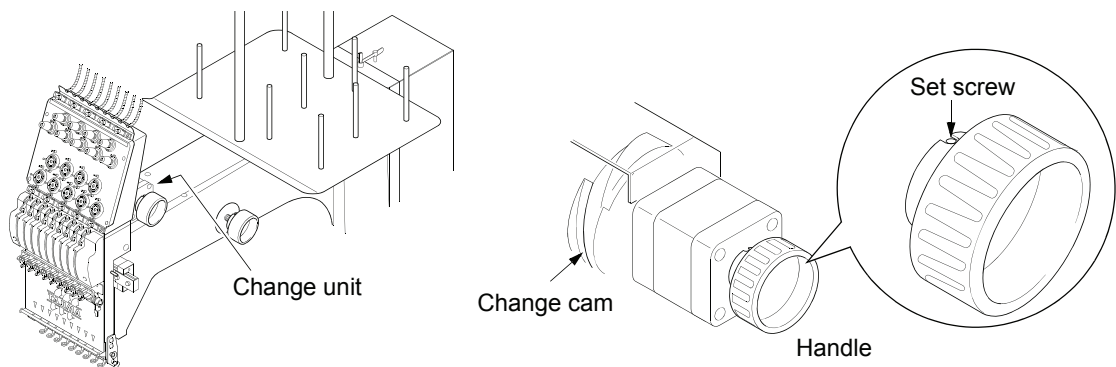
 The message is displayed when embroidery starts (pressing "START" switch).


When the message shown right is displayed on the screen, supply oil to the specified spots. After the lubrication, press "STOP" switch to release the maintenance mode to continue working. (Refer to p.90)	<b>** MAINT. REQUIRED **</b> One drop of oil  →As per Inst. Manual
When the message shown right is displayed on the screen, grease the specified spots. After the greasing, press "STOP" switch to release the maintenance mode to continue working. (Refer to p.91)	<b>** MAINT. REQUIRED **</b> Grease→Cams Take-up, Presser →As per Inst. Manual

## 1-3. Adjustment of needle position

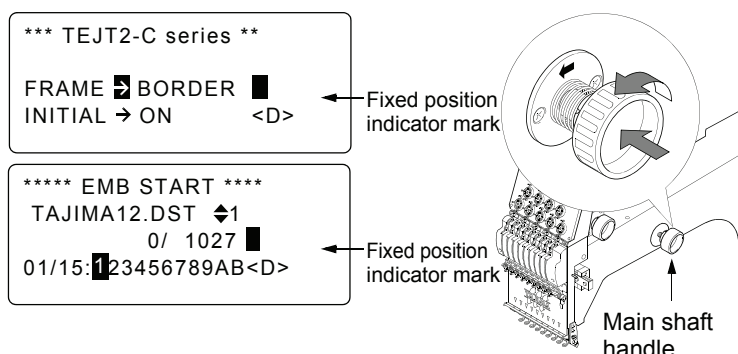
When the change cam deviates from the fixed position, the machine will not work. Adjust needle position with the following operations.

\* Turn the handle of color change device so that the set screw faces to the top.




 When the fixing screw of the handle is positioned at the top, odd-numbered needle bars are selected.

## 1-4. Adjustment of main shaft stop position



When main shaft stop comes off from the fixed position, the black square (fixed position indication mark) as shown left will not be displayed. When you press the start switch as it is, the machine will return to the fixed position automatically. If the machine does not return to the fixed position, turn the main shaft by hand to return the stop position to the fixed position.

 Turn the main shaft handle while pushing it.

## 2. WHEN TROUBLE OCCURS



### CAUTION



Adjustment includes some complicated works. Consult your local distributor before working.

Examples for causes and adjustments when trouble(s) occur are described below.

	Cause	Adjustment
The machine cannot start.	Loose or broken belts	Adjust the belt tension or replace the belt.
	The machine does not detect needle position signal.	Adjust the needle position. (Refer to p.87)
	Bad contact of connector	Insert the connector firmly.
Stop position error	Loose or soiled belt	Adjust the belt tension or clean the belt.
	Galling of driving parts	Adjust or replace driving part of needle bar/rotary hook.
Color change error	Bad positioning of needle bar at stop	Adjust the position.
	Position of take-up lever is wrong.	Adjust the position of the take-up lever at the stop position so that its position is the same as others.
	The machine does not detect needle position number.	Adjust the needle position so that needle position is properly indicated in the manual color change section on the operation panel. (Refer to p.87)
Jump error	Bad positioning of parts related to needle bar driving	Adjust the attaching position of the needle bar reciprocator set with the upper dead point stopper.
Displacement of design	Incorrect tension of frame drive belt	Adjust the belt tension.
	Malfunctioning of frame drive system	Replace, adjust the part.
	Overall frame weight is excessive.	Lower the r.p.m. of the main shaft.
	Drive unit (X, Y-axes) defective	Replace the drive unit. Replace the X-axis/Y-axis drivers.
Thread breakage	Wrong needle-rotary hook timing or improper gap	Adjust timing, gap again.
	Needle bar lower dead point error	Adjust the lower dead point again.
	There are flaw(s) in the course where thread passes.	Remove the scratches.
	Incorrect upper/lower thread tension	Adjust thread tension.
	Repeated stitching at the same point	Correct embroidery data.
	Incorrect take-up lever timing	Readjust the take-up lever driving cam timing.
Related to ATH	The machine cannot trim thread.	Adjust the position of ATH knife.

### 3. DAILY MAINTENANCE

#### 3-1. Warning and cautions



#### WARNING

To prevent accidents resulting in injury or death and physical damage, the following must be observed when performing daily maintenance (cleaning, lubrication, greasing, and/or inspection).

- ❗ Maintenance work should be performed by the personnel who is trained adequately.
- ❗ When starting operation again, attach all the detached covers as they originally were.



#### CAUTION

- ❗ Perform daily maintenance.  
Neglect of daily maintenance could cause troubles. Damage due to neglect of daily maintenance may be judged as "Outside the scope of warranty".
- ❗ If the machine is not used for a long period, turn the power switch ON in regular intervals.  
Although each card of the machine has a backup battery, data may be lost for about one month because voltage of the battery will come down gradually due to discharge when the power switch is turned off.
- ❗ Assure enough illumination.  
Assure 300 lux or more for working areas including underneath part of the machine table when changing under threads or performing daily maintenance.

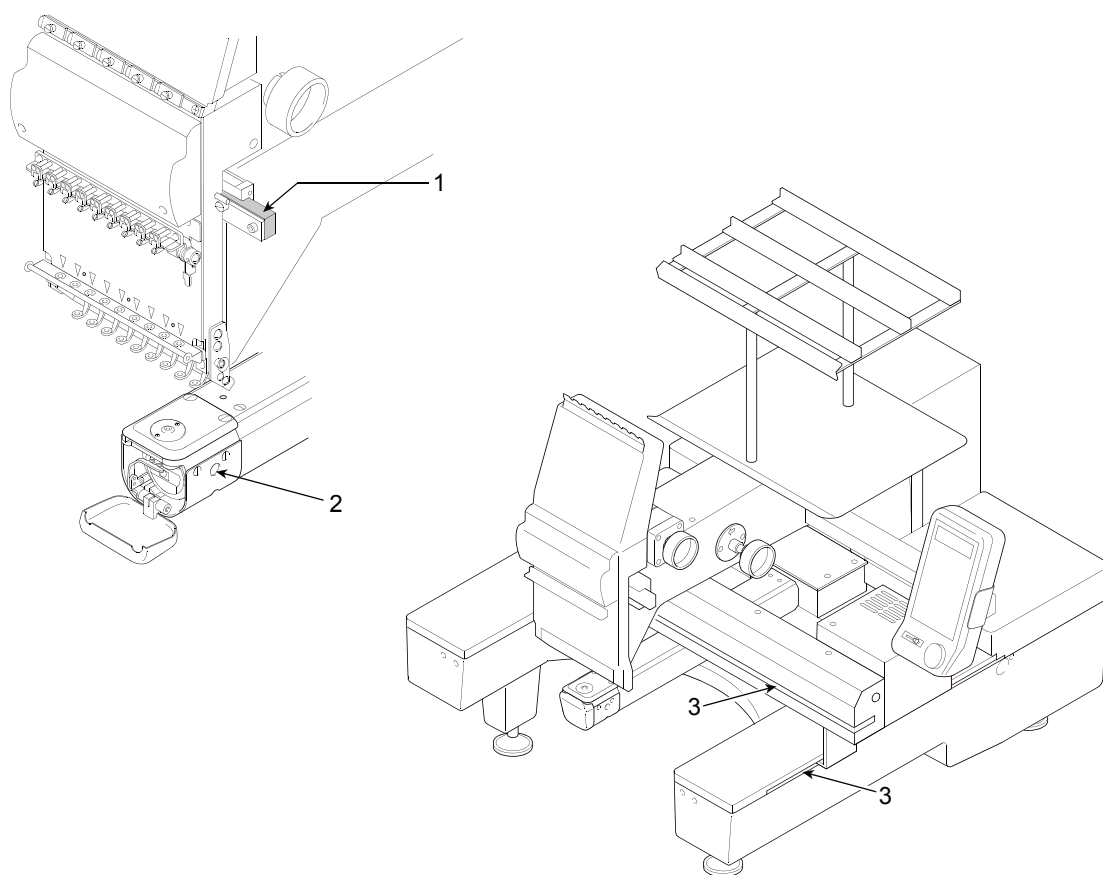
#### 3-2. Cleaning



#### WARNING


- ❗ Start cleaning after turning OFF the primary power supply (4 minutes). You could be badly injured by electric shock or entangling in the machine.
- ❗ Maintenance work should be performed by the personnel who is trained adequately.
- ❗ When starting operation again, attach all the detached covers as they originally were.

Cleaning area	Cleaning cycle
1: Case linear section	Once/week
2: ATH section	Every day
3: X/Y-axis drive system	Once/2 weeks





### 3-3. Lubrication

#### **WARNING**

-  During machine lubrication, turn off the power switch. You may sustain severe injuries due to being entangled by moving machine units.

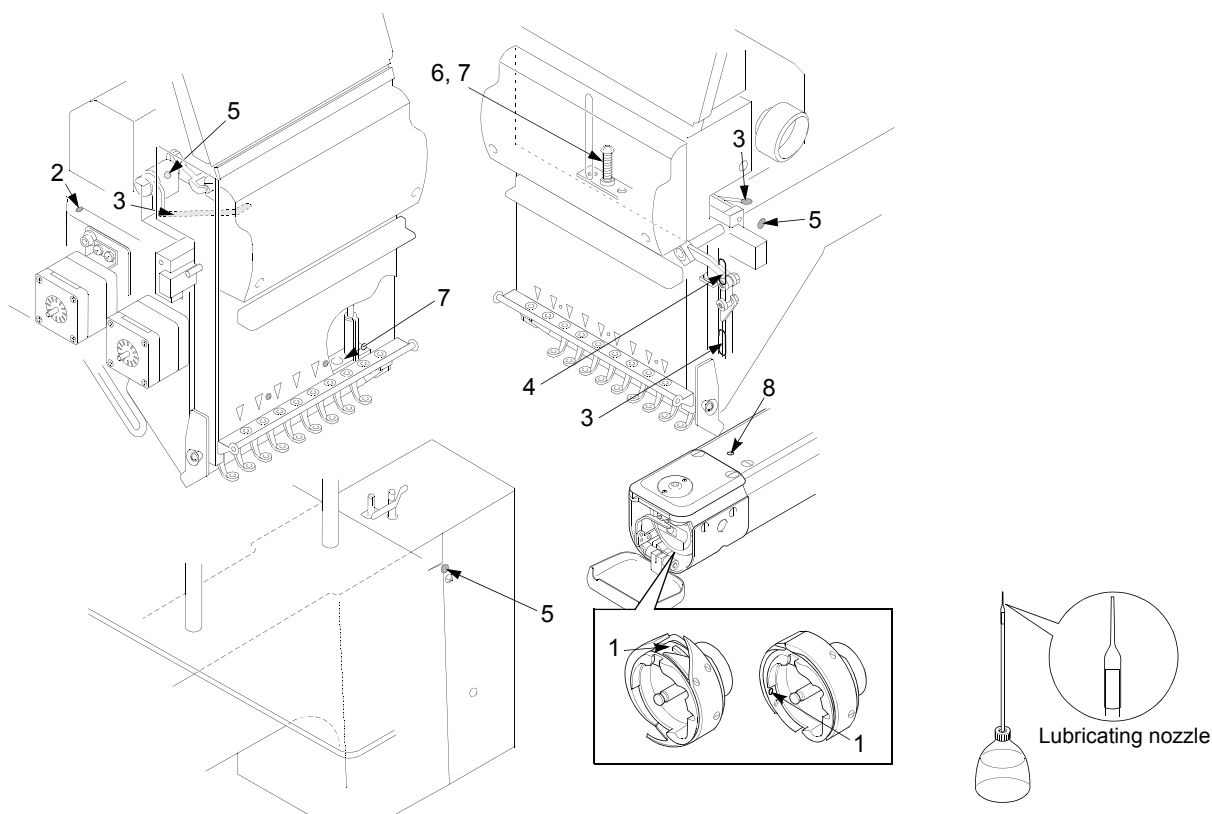
#### **CAUTION**

-  Keep the determined lubricating cycle. neglect could cause thread breakage.
-  When performing lubrication, use only Tajima's genuine SF oil or equivalent (#150 spindle oil: ISO viscosity grade = VG18).

Lubricating spot	Lubrication cycle
1: Rail section of rotary hook	Every 3 to 4 hours of operation
2: Drive shaft of presser foot reciprocator 3: Needle bar drive shaft	Once a day
4: Needle bar drive shaft of presser foot 5: Inside of the arm 6: Needle bar 7: Felt packing (needle bar)	Once/week
8: Inside of cylinder bed	Once/3 months



- As the guidance persuading the operator to perform lubrication to the rail section of rotary hook, the machine has a function to display maintenance information on the operation panel. When the maintenance information is displayed, turn OFF the power switch and supply oil to the rail section of rotary hook. (Refer to p.87)



## 3-4. Greasing

### WARNING

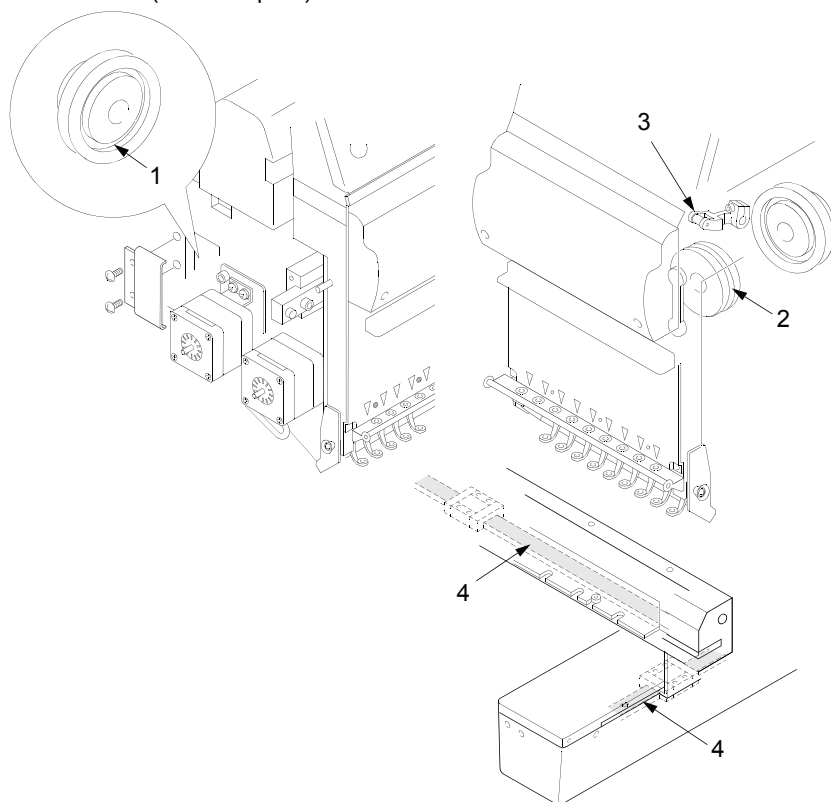
- ⚠ During machine greasing, turn off the power switch. You may sustain severe injuries due to being entangled by moving machine units.

### CAUTION

- ⚠ When performing greasing, consult the distributor.  
⚠ Be sure to use the recommended commodity (petroleum-based lithium grease) or the equivalent.


Greasing spot	Greasing cycle
1: Presser foot cam 2: Take-up lever drive cam 3: Roller of take-up lever	Once/3 months
4: X/Y drive system	Once/6 months

- As the guidance persuading the operator to perform greasing, the machine has a function to display maintenance information on the operation panel. When the maintenance information is displayed, turn OFF the power switch and perform greasing to the specified spots. For other greasing, refer to the chart shown above. (Refer to p.87)



### 3-5. Inspection

#### **WARNING**

-  When inspecting the machine, be sure to turn off the primary power supply (before turning off the primary power supply, turn OFF the power switch). You could sustain severe injury due to being entangled by the machine.

Inspection Point	Contents of inspection	Inspection Cycle
1: Each belt of main shaft drive system	Tension of belt, degree of wear, existence of crack	Once/3 months
2: Each belt of X/Y-axis drive system	Tension of belt, degree of wear, existence of crack	
3: Rotating/sliding section	Degree of wear	

### 3-6. Repair



## WARNING

When repairing the machine, observe the following items to prevent accident resulting in injury or death.

- ❗ Before working, be sure to turn off the primary power supply (Before turning off the primary power supply, turn off the power switch). Even if the primary power supply is turned off, some circuits are still charged. Wait (4 minutes) until these circuits are completely discharged and then start working.
- ❗ If the machine needs repairs, the repairs must be done only by the service personnel assigned and trained by Tajima or qualified technician. (Consult your distributor.)  
Do not change the specification nor modify the parts of the machine without due consultation with Tajima. Such modification may risk the operational safety.
- ❗ When restarting the machine after repairs, attach all covers etc. which were removed for repair operation.



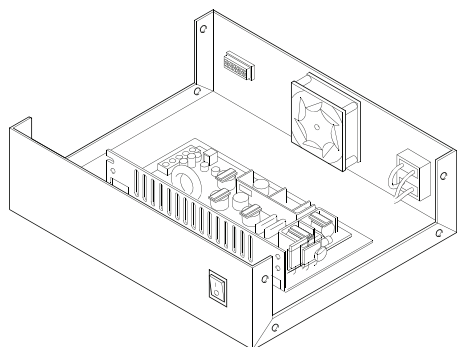
## CAUTION

- ❗ For the machine repairs, use TAJIMA genuine parts for replacement.

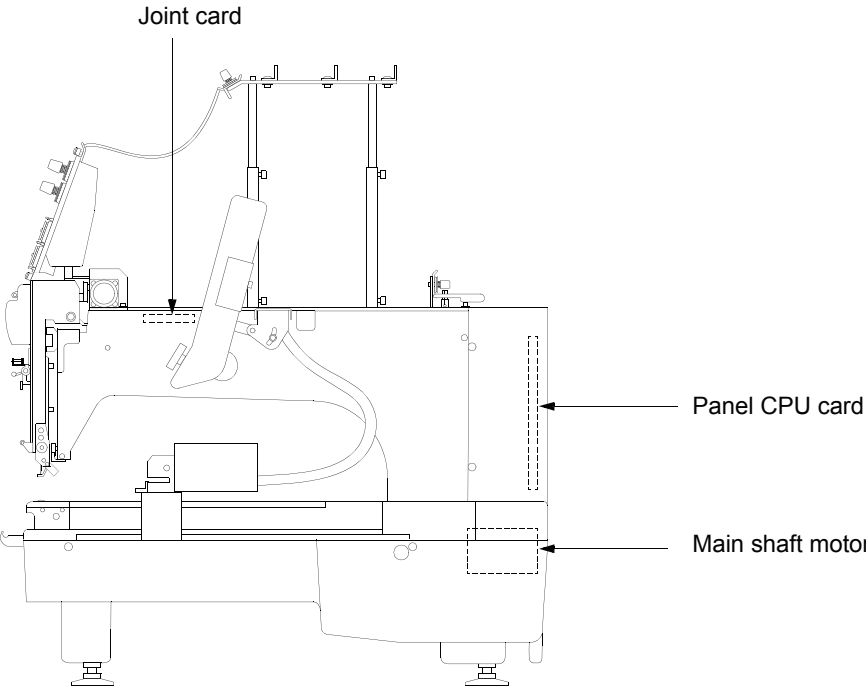
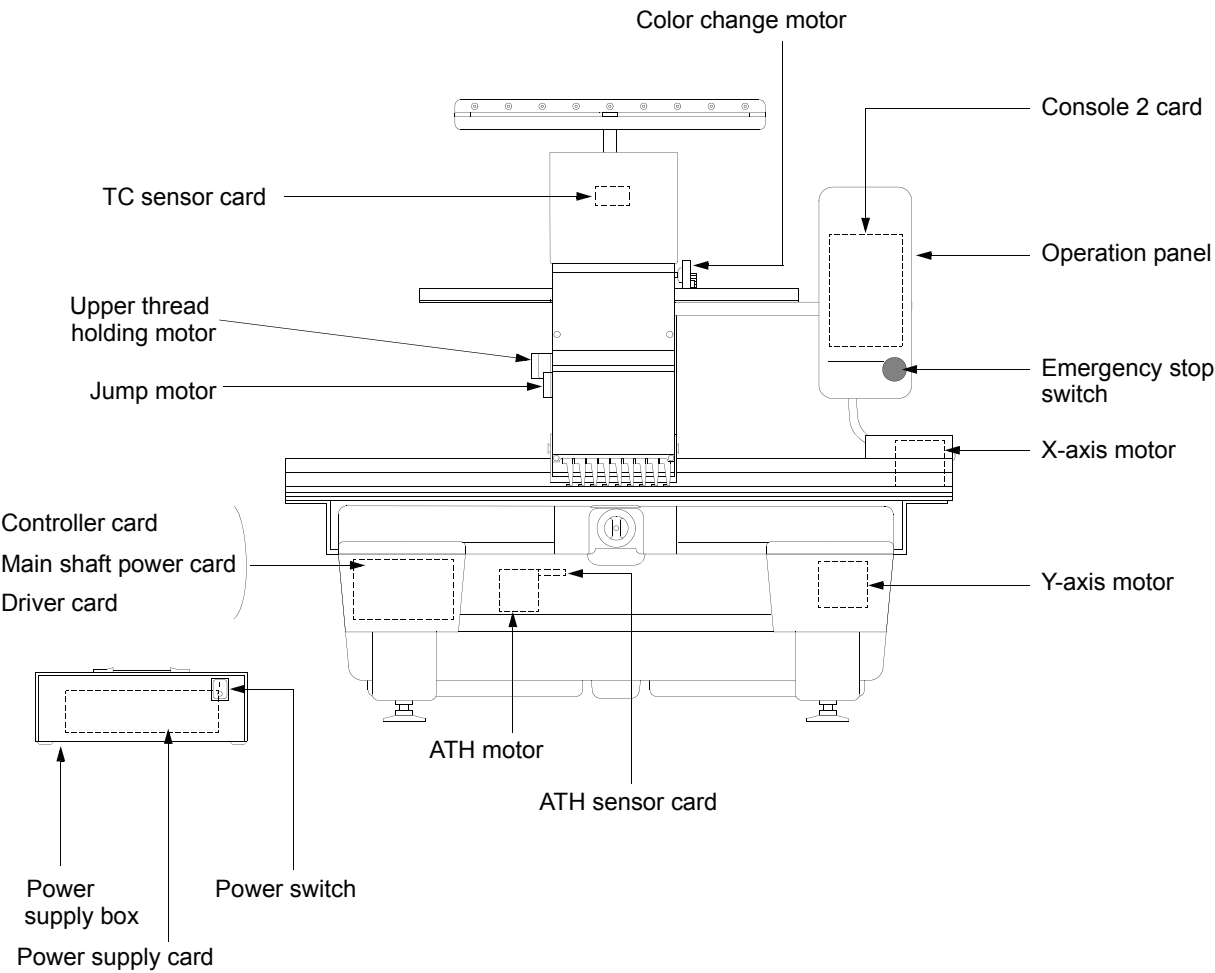


## Chapter 12 Electro-component parts

1. ELECTRICAL PARTS LAYOUT DRAWING .....	P.96
2. POWER SUPPLY BOX .....	P.97
3. EACH CARD .....	P.97
4. ELECTRICAL SYSTEM DIAGRAM .....	P.99



1. ELECTRICAL PARTS LAYOUT DRAWING

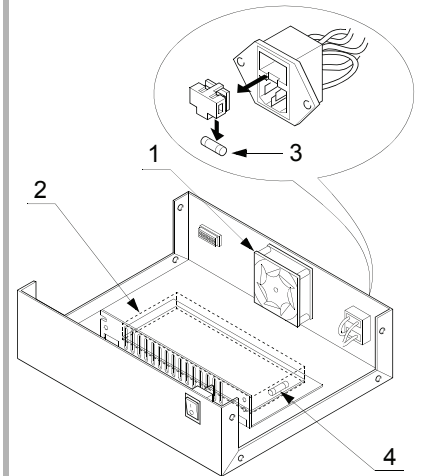
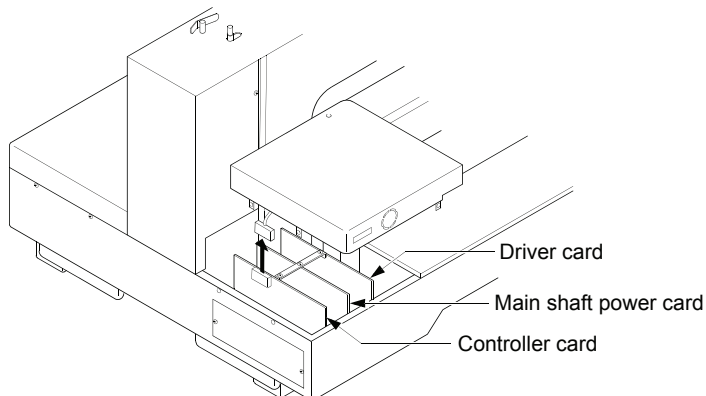


**CAUTION**

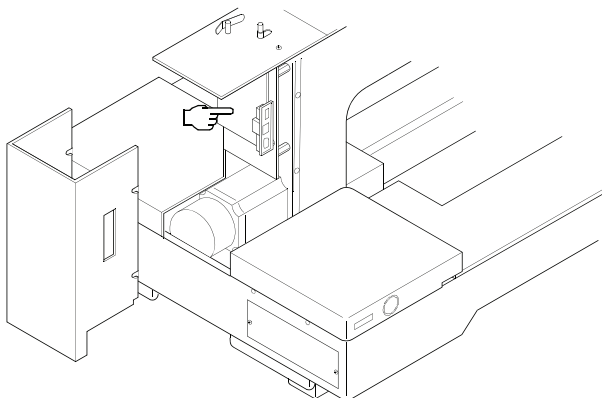
Do not block flow of the cooling fan.  
Inside of the box will overheat to lead to breakdown.

**2. POWER SUPPLY BOX**

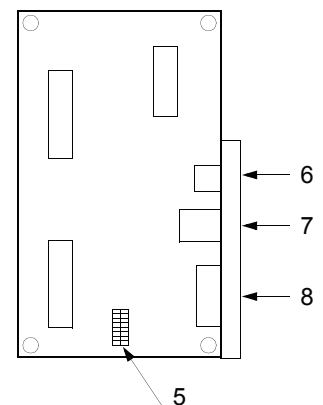
- 1: Cooling fan
- 2: DC power supply
- 3: Glass tube fuse (250 V/6.3 A) for AC power supply
- 4: Glass tube fuse (250 V/8 A) for AC power supply

**3. EACH CARD**

When you detach the cover, also detach the power supply harness from the controller card.

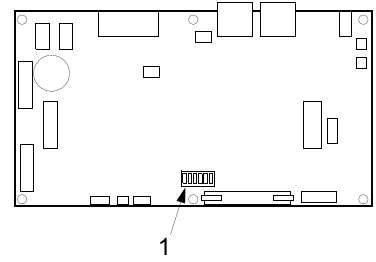
**3-1. Panel CPU card**

- 5: DIP switch
- 6: USB port
- 7: LAN port
- 8: RS232C port

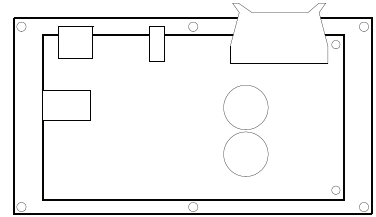


### 3-2. Controller card

1: DIP switch



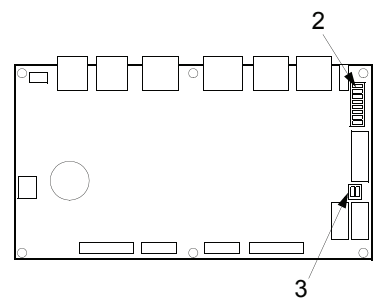
### 3-3. Main shaft power card



### 3-4. Driver card

2: DIP switch

3: DIP switch










## Chapter 13 Others

**1. SOFTWARE INSTALLATION .....P.102**  
**2. TEST MODE SCREEN .....P.104**  
**3. NETWORK SETTING (LAN, COM MODE) .....P.107**  
**4. LANGUAGE ..... P.110**  
**5. RELATED TO SPEC. .... P.111**

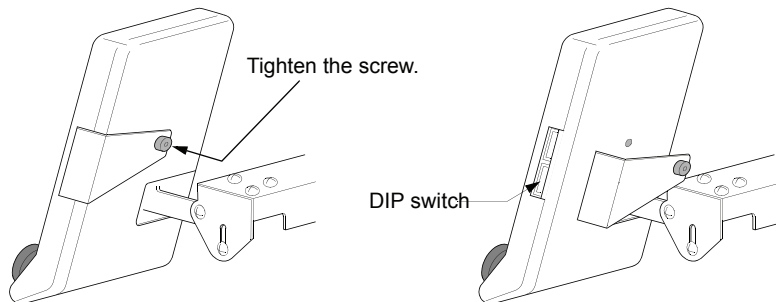
		 TOKAI IND. CO., LTD. 1-1-1, Hongo, Bunkyo-ku, Tokyo 113, JAPAN	
		MFG. NO.	
仕様書 MACHINE SPEC		電気仕様 ELECTRICITY	
SIZE	C (mm)      ① W (mm)      ② D4 (mm)      ③	④ ⑤ V A VA W	
NET WT.	(kg)	MANUFACTURED	

## 1. SOFTWARE INSTALLATION

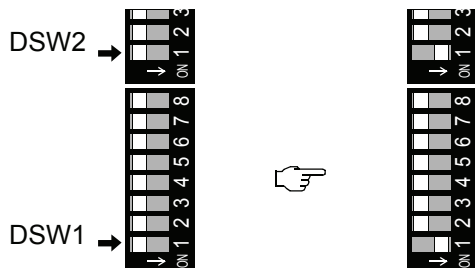
**CAUTION**

! Installing software will cause machine setting to become initial value and design data to be cleared. Be sure to check again.

## (1) Detach the switch cover.

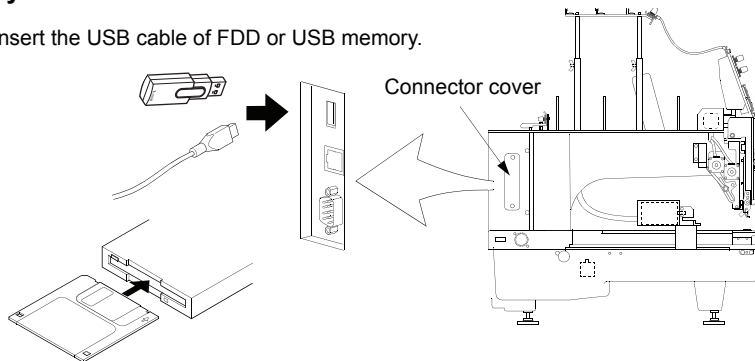


## (2) Turn "ON" DSW2-1 and DSW1-1 of DIP switch.

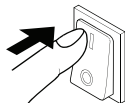


## (3) After removing two pieces of screw to detach the connector cover, set the USB memory or floppy disk that contains the system software.

Insert the USB cable of FDD or USB memory.



## (4) Turn "ON" the power switch.



## (5) Press "Set".

\*\*\*\*\* INSTALL \*\*\*\*\*  
SET KEY→FILE SEARCH



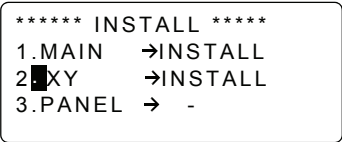
MAIN: program related to CPU  
XY: program related to drive system  
PANEL: program related to panel

(6) Selection of program and “INSTALL”



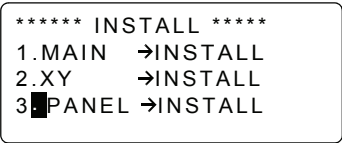
Select “INSTALL” by using “Frame travel (Right/Left)” key.  
Select install program by using “(Up/Down)” key.

(7) Selection of other program and “INSTALL”



To install one program only, select “INSTALL” at the correspondent program and press “Set” key. The screen will become screen for installation.

(8) Press “Set” to start installation.



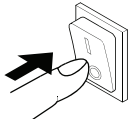
(9) INSTALL



(10) Installation completed

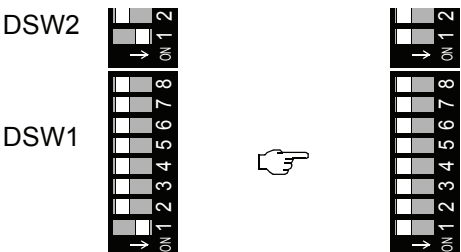


(11) Turn “OFF” the power switch.

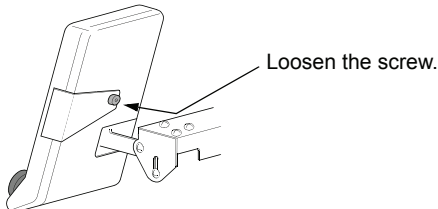


Screen display language will become initial value (English). Perform setting again according to need. (Refer to p.110)

(12) Turn “OFF” DSW2-1 and DSW1-1 of DIP switch.



(13) Attaching of the switch cover



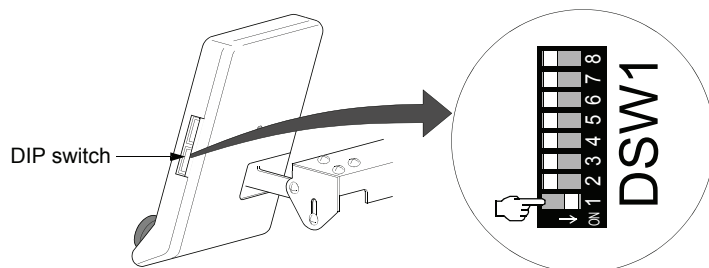
Machine setting has return to initial setting value. Change machine setting according to need.

When design data is cleared, perform input again.

## 2. TEST MODE SCREEN

LCD screen displayed at test mode is explained here.

Detach the cover located at the back of the operation panel with the power turned OFF, turn "ON" No.1 of DIP switch 1 (DSW1) and turn ON the power. Press "Set" key to switch to changed screen.



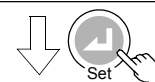
### ● Test mode

TEST MODE	(1) MAIN (2) XY (3) PANEL (4) Embroidery information
-----------	---

```

*** TEJT2-C series **
TEST MODE
<1>

```



```

***** TEST MODE *****
(1) MAINVer
(2) XY Ver
(3) PANELVer

```

```

***** TEST MODE *****
(2) XY Ver
(3) PANELVer
(4) EMB INFORMATION

```

### ● Main

Main	<b>a</b> Angle of main shaft <b>b</b> ATH setting <b>c</b> Needle bar No. being used and the value of the potentiometer
------	---

```

***** MAIN *****
SHAFT→ 107.5 degrees a
TRIM→ 0 b
Needle No.→ No.1 203 c

```

### ● Panel

panel	(1) Network setting (2) Maintenance information (4) Memory test (4) Buzzer, LED test (5) Key test (6) Display language setting
-------	---

```

***** PANEL *****
(1) NETWORK SETTING
(2) MAINTENANCE
(3) MEMORY TEST

```

```

***** PANEL *****
(4) BUZZER, LED TEST
(5) KEY TEST
(6) LANGUAGE

```

Network setting	<div>⊙ COM connection</div> <div><div>a</div> Port (COM/LAN)</div> <div><div>b</div> Data transfer speed (9600/19200/38400)</div> <div><div>c</div> Network (OFF/1/2)</div> <div><div></div> OFF: without connection</div> <div>1: Receiving data from a personal computer</div> <div>2: Selecting data from a personal computer for input</div>	<div>** NETWORK SETTING *</div> <div>PORT→ COM</div> <div>COM SPEED→ 9600</div> <div>NETWORK→OFF</div> <div>a</div> <div>b</div> <div>c</div>
	<div>⊙ LAN connection</div> <div><div>a</div> PORT (COM/LAN)</div> <div><div>b</div> MACHINE IP address setting (AUTO/MANUAL)</div> <div><div>c</div> SPOOLER IP address setting (AUTO/MANUAL)</div> <div><div></div> IP address setting is unnecessary in AUTO.</div> <div>⊙ IP address</div> <div><div>d</div> IP number</div> <div><div>e</div> SUBNET MASK</div> <div><div>f</div> Gateway</div>	<div>** NETWORK SETTING *</div> <div>Port → LAN</div> <div>MACHINE IP → [SET]</div> <div>SPOOLER IP → [SET]</div> <div>a</div> <div>b</div> <div>c</div>
		<div>***** IP ADDRESS *****</div> <div>IP → 192.168.11.11</div> <div>MASK→ 255.255.255.0</div> <div>GATE→ 192.168.11.10</div> <div>d</div> <div>e</div> <div>f</div>
Maintenance		<div>*****SPOOLER IP *****</div> <div>SEARCH → MANUAL</div> <div>IP → 192.168.11.11</div> <div>d</div>
	Maintenance information	<div>**** MAINTENANCE ***</div> <div>NNN NNN NNN</div>
Memory test	<div>Memory clear condition</div> <div><div></div> Initializing causes the screen to display in English.</div>	<div>*** INITIALIZING ***</div> <div>1600KB OK</div>
Buzzer LED test	<div>Setting condition of DIP switch 1</div> <div>Setting condition of DIP switch 2</div> <div><div></div> Screen and button lamp will blink and buzzer will sound.</div> <div>1: OFF</div> <div>0: ON</div>	<div>***** BUZZER, LED ****</div> <div>DIP SW1→ 11111110</div> <div>DIP SW2→ 11111111</div>
Key test	<div><div></div> “o” will be displayed/not displayed every time the button is pressed since the function corresponds to each button of the operation panel.</div>	<div>***** KEY TEST *****</div> <div>00000 00 0 00000</div> <div>000 0 00 0 0 00</div> <div>00000 00 0 00 00</div>

Language	<b>a</b> Switching of display language (Japanese/English/German/Russian/Czech/Spanish/Portuguese)
● Embroidery information	
Embroidery information	<b>a</b> The number of pieces <b>b</b> The number of stitches <b>c</b> Error <b>d</b> Serial No. (Machine number)
Error information	It is possible to compile the number of occurrence of errors up to now. <div> <div>1. Thread breakage</div> <div>2. main shaft motor</div> <div>3. Y-axis motor</div> <div>4. X-axis motor</div> <div>5. Needle case position</div> <div>6. Thread trimming</div> <div>7. TEMPERATURE</div> <div>8. 232C communication</div> <div>9. 232C communication</div> <div>10. Inner communication</div> <div>11. Inner connection</div> <div>12. Data</div> <div>13. RAM</div> <div>14. Limit</div> </div>

```

***** LANGUAGE *****
      ENGLISH      a
  
```

```

** EMB INFORMATION *
PIECE   →      0 a
STITCH  →      0 b
ERROR   → [SET] c
  
```

```

** EMB INFORMATION *
SERIAL No.→      0 d
  
```

```

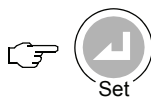
***** ERRORS *****
[ 1]THREAD BREAK→  0
[ 2]M MOTOR       →  0
[ 3]Y MOTOR       →  0
  
```



### 3. NETWORK SETTING (LAN, COM MODE)

- (1) Make the machine become "TEST MODE" and press "Set".

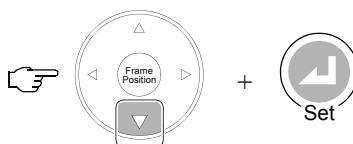
```
*** TEJT2-Cseries **
TEST MODE
<1>
```



Turn "ON" DSW1-1 and turn "ON" the power switch.  
(Refer to p.104)

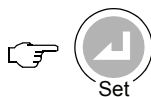
- (2) Select "PANEL" and press "Set".

```
***** TEST MODE *****
(1) MAINVer
(2) XY Ver
(3) PANELVer
```



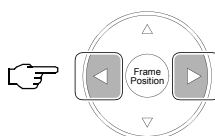
- (3) Select "NETWORK SETTING" and press "Set".

```
***** PANEL *****
(1) NETWORK SETTING
(2) MAINTENANCE
(3) MEMORY TEST
```



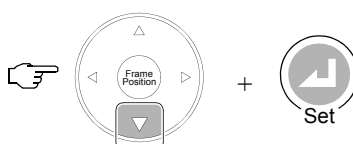
- (4) Select "LAN". To (15) for selection of "COM"

```
** NETWORK SETTING *
PORT [ ] LAN
MACHINEIP → [SET]
SPOOLER 1P → [SET]
```



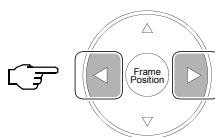
- (5) Select "MACHINE IP" and press "Set".

```
** NETWORK SETTING *
PORT → LAN
MACHINEIP [ ] [SET]
SPOOLER 1P → [SET]
```



- (6) Select "MANUAL".

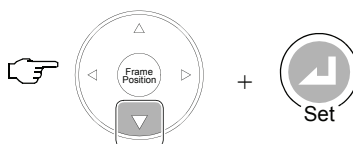
```
***** MACHINEIP *****
TCP/IP [ ] MANUAL
IP address → [SET]
```



Although it is set to "AUTO", when communication error [3B6] occurred by LAN connecting condition, input each IP address value at "MANUAL".

- (7) Select "IP address" and press "Set".

```
***** MACHINEIP *****
TCP/IP → MANUAL
IP address [ ] [SET]
```



- (8) Input the address value.

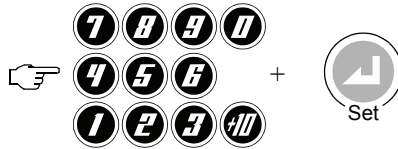
```
***** IP ADDRESS *****
IP → 192.168.11.11
MASK → 255.255.255.0
GATE → 192.168.11.10
```



Make the value of each IP address setting the same as the value of each IP address of the external device (DG/ML).

(9) After inputting all address values, return to “NETWORK SETTING” screen.

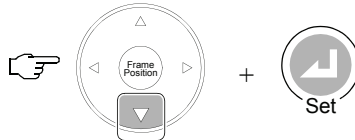
\*\*\*\*\* IP ADDRESS \*\*\*\*\*  
IP → 192.168.11.11  
MASK → 255.255.255. 0  
GATE → 192.168.11.10



Press “Set” key twice after inputting the value of IP address at “GATE” to return the screen to “NETWORK SETTING” screen. Then, input the address of “SPOOLER IP”.

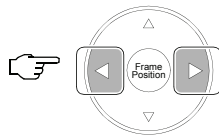
(10) Select “SPOOLER IP”.

\*\* NETWORK SETTING \*  
PORT → LAN  
MACHINEIP → [SET]  
SPOOLER 1P [SET]



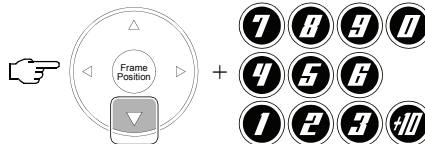
(11) Select “MANUAL”.

\*\*\*\*\*SPOOLERIP \*\*\*\*\*  
SEARCH [MANUAL]  
IP → 192.168.11.11



(12) Input the address value.

\*\*\*\*\*SPOOLERIP \*\*\*\*\*  
SEARCH → MANUAL  
IP → 192.168.11.11



(13) After inputting the address value, press “Set” twice.

\*\*\*\*\*SPOOLERIP \*\*\*\*\*  
SEARCH → MANUAL  
IP → 192.168.11.11

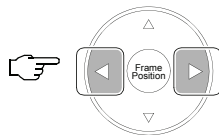


(14) Return to TEST MODE screen and complete.

\*\*\*\*\* TEST MODE \*\*\*\*\*  
(1) MAIN Ver  
(2) XY Ver  
(3) PANEL Ver

(15) In case of selection of “COM”, start from (4)

\*\* NETWORK SETTING \*  
PORT → COM  
COM SPEED → 19200  
NETWORK → OFF



(16) Select data transfer speed.

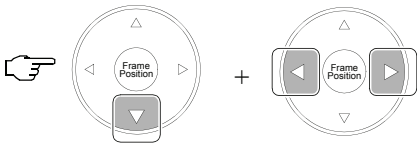
\*\* NETWORK SETTING \*  
PORT → COM  
COM SPEED → 19200  
NETWORK → OFF



Select data transfer speed: 9600/19200/38400.

(17) Select “NETWORK”.

\*\* NETWORK SETTING \*  
PORT→ COM  
COM SPEED→ 19200  
NETWORK→ 1



Select “1” or “2” at network.  
“OFF”: no connection  
“1”: Receiving design data from an external device (DG/ML) as it is  
“2”: Selecting and receiving design data from an external device (DG/ML)

(18) Press “Set”.

\*\* NETWORK SETTING \*  
PORT→ COM  
COM SPEED→ 19200  
NETWORK→ 1



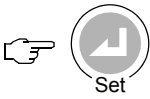
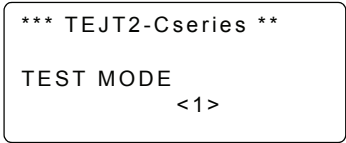
(19) Completion

\*\*\*\*\* PANEL \*\*\*\*\*  
(1) NETWORK SETTING  
(2) MAINTENANCE  
(3) MEMORY TEST

Turn “OFF” the power and turn “OFF” DSW1-1.

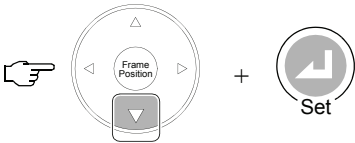
4. LANGUAGE

(1) Make the machine become “TEST MODE” and press “Set”.

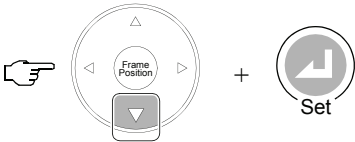
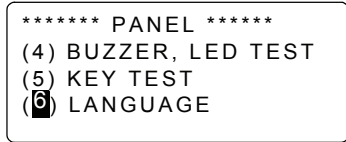


Turn “ON” DSW1-1 and turn “ON” the power switch.  
(Refer to p.104)

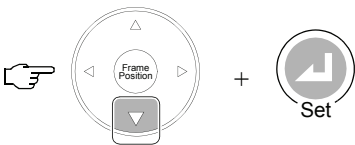
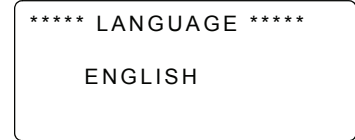
(2) Select “PANEL” and press “Set”.



(3) Select “LANGUAGE” and press “Set”.

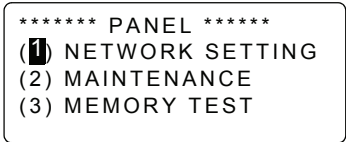


(4) Select display language and press “Set” (Example: selecting English)



Selectable language:  
JAPANESE / ENGLISH / GERMAN/  
RUSSIAN / CZECH / SPANISH /  
PORTUGUESE



(5) Completion





Turn “OFF” the power and turn “OFF” DSW1-1.

## 5. RELATED TO SPEC.

### (1) Main spec.

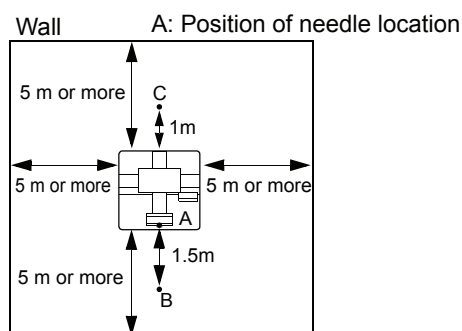
 <b>CAUTION</b>	
 When using the machine deviating from contents of specifications of power supply and power consumption, trouble may occur.	
Spec.	Contents of spec.
RPM	120 - 1,200 rpm
Embroidery space	360 x 500 mm
Input data	Up to 60,000 stitches, 99 designs
Weight	80 kg
Outside dimensions	W 665 x L 805 x H 796 mm
Electric current • capacity • Hz	1.2 A (200V) 225 VA 50/60 Hz
Power supply • power consumption	Single phase AC: 100 - 120 V, 200 - 240 V, max. 220 W

Insulation resistance: 10M ohms and larger (500V megger)

 <b>WARNING</b>	
 Since there is a danger of electric shock due to leak current, be sure to ground the earth cable of the machine. In addition, degree of grounding should be type D or higher (grounding resistance 100 ohms or less).	

### (2) Ambient noise level

The ambient noise level of the machine is less than 85 dB. Measuring conditions are as follows:



The maximum number of revolutions is limited depending on frame setting or stitch length.

◆Measuring environment (refer to the left illustration)

◆Measuring position

Measured at B and C of which height is 1.6 m from the floor, and higher value is adopted.

◆Working condition of the machine  
Fabric is stretched to a tubular goods frame and the machine is sewing satin stitches of 4 mm length.

◆RPM

The maximum number of revolutions of the machine

◆Measuring instrument

Conformity to IEC61672-1: 2002  
Class 1



1st Edition        May, 2006  
2nd Edition        July, 2008  
3rd Edition       December, 2008  
4th Edition        June, 2009

■ **Manufactured by:**  
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■ **Authorized Distributor:**

